BUFFALO SCALES



BUFFALO SCALE COMPANY, Inc.

BUFFALO, N. Y., U. S. A.

No. 529

ВОЕВОТО СЕУТЕ СОЛДАТ

BUFFALO SCALES

The World's Standard
for Three Quarters of a Century



BUFFALO SCALE COMPANY, INC.

General Offices and Factory, Buffalo, N. Y., U. S. A.

Branch Offices:

New York Detroit Chicago Pittsburgh Cleveland Philadelphia Los Angeles
San Francisco New Orleans Atlanta San Antonio Little Rock Toledo

PRINTED IN U.S.A. Form No. 529

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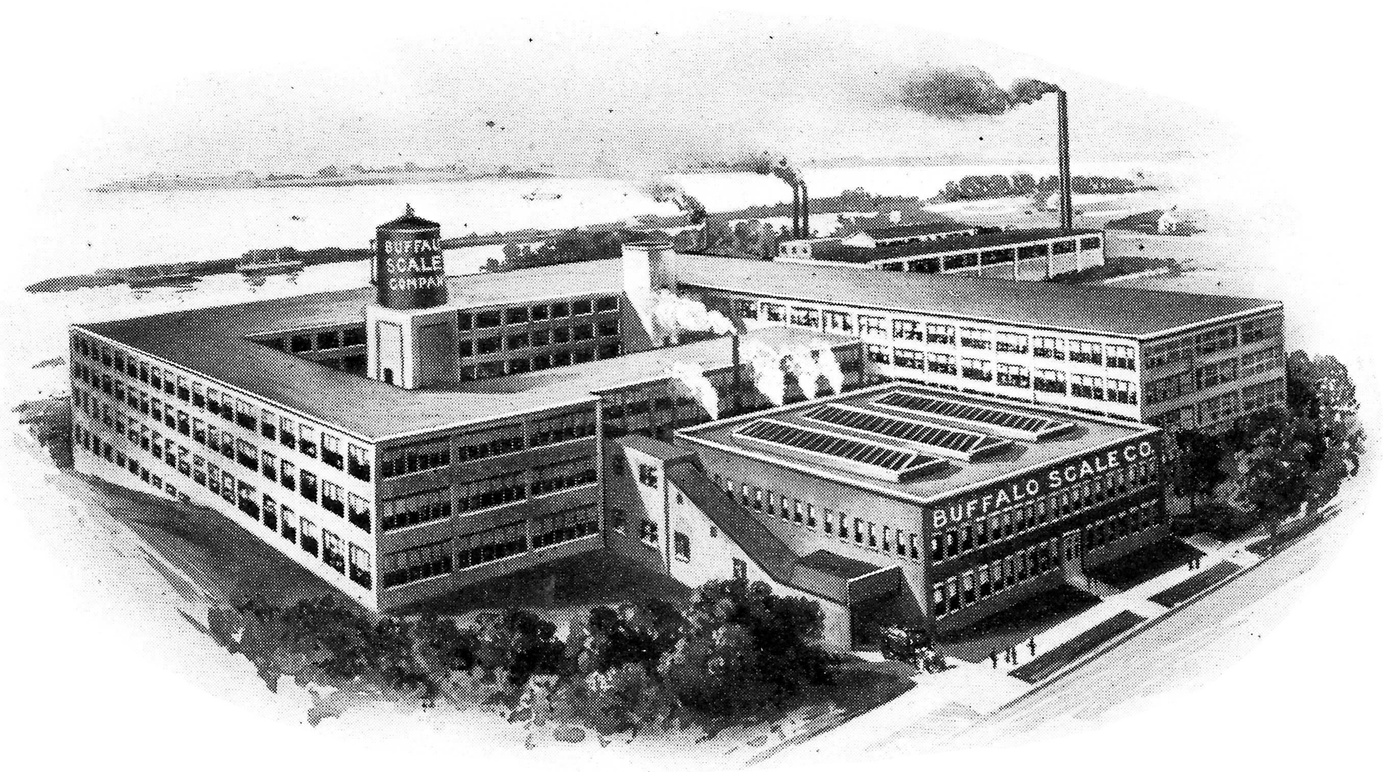
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BUFFALO SCALE COMPANY



THE purpose of this catalog is to provide a convenient and accessible reference for BUFFALO scales most in demand. Due to limitations of size, the data embodied in this catalog is necessarily condensed in form. For that reason, we invite all prospective buyers to request any additional information which might aid them in selecting the most suitable scale for their use. Special scales for any purpose will be made to your specifications.

Scales play an important part in your profits, and for that reason it will pay you to be hypercritical in your selection of them. Many scale buyers still purchase their scales casually—as so much steel and wood; whereas, with the very profits of the business hanging in the balance, every detail of the scale design and construction should be minutely examined and approved by the buyer. The BUFFALO SCALE COMPANY not only welcomes — but urges this careful scrutiny.

For three-quarters of a century, BUFFALO Scales have been the products of scale craftsmen. Their success has been gauged by their design, durability and popularity over a long period of years.

The answer to the growing preference for these scales lies entirely in their fine accuracy and the unfailing performance under the most severe kind of service.

Every BUFFALO Scale, large and small, is built carefully, painstakingly. Every vital part is hand-finished to the finest point of accuracy.

Because BUFFALO Scale Engineers have found that the most accurate weighing instrument is the one which has the fewest parts working against other parts, BUFFALO Scales have been developed to a point of utter simplicity. Friction, which interferes with accuracy, has been reduced to a point nearest possible to complete elimination.

BUFFALO Scales are built for the user who can appreciate the little extras that make any product—whether it be a piano, an automobile or a scale—visibly and provably superior.

Posted on October 20, 2019

Edited by: Brian D. Szafranski
of Elma New York USA

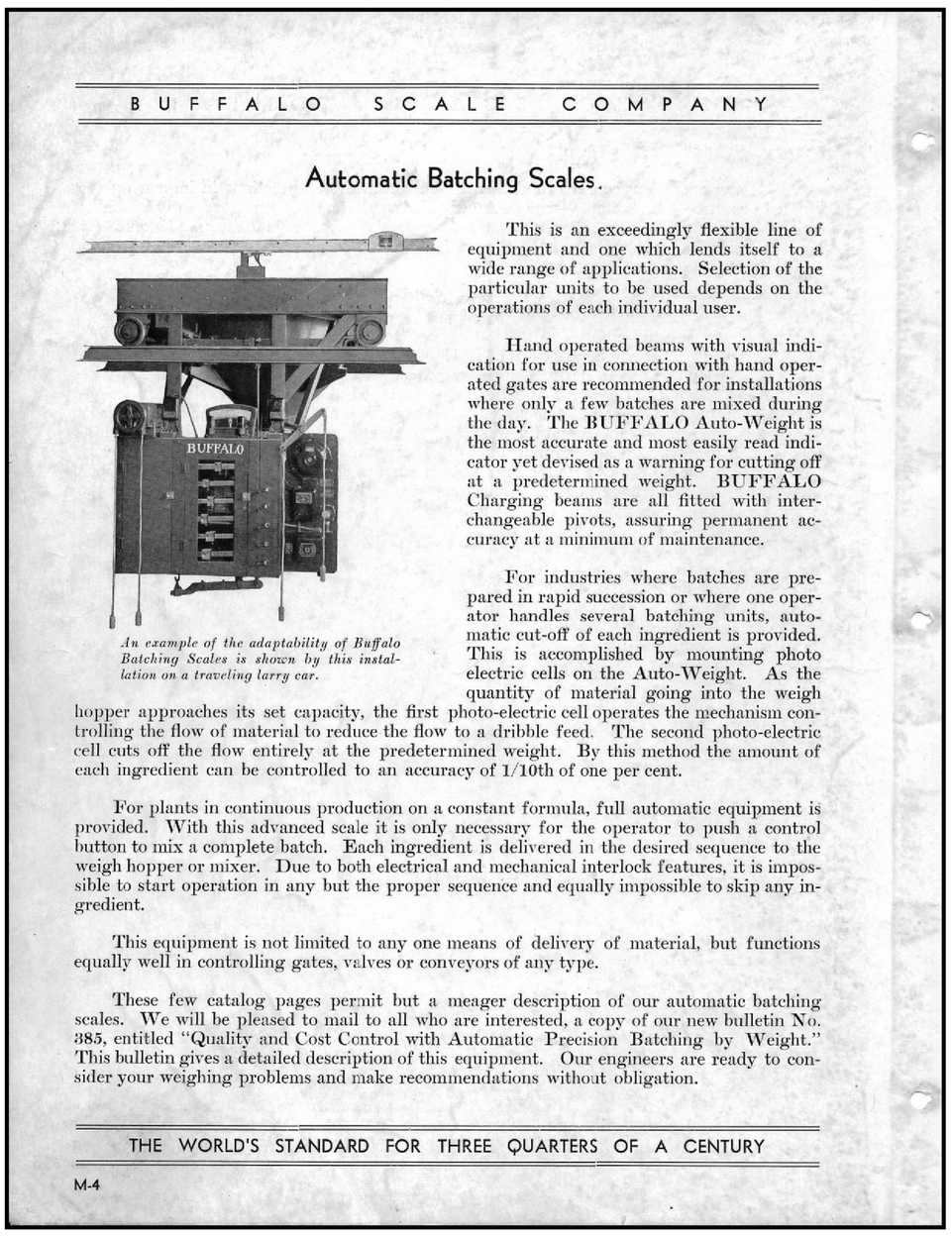
Note #1): The original catalog binder was missing pages C-1 and C-2.

Note #2) The original was in not in good condition because of poor storage conditions.
Its pages had grease & dirt, and many were marked in pencil.

Note #3) This catalog has printing errors, e.g., letters B and S in most of the titles are upside down (the larger portion of the letter is at the top).

Please see the as-scanned example at the right to see how dirty some pages were before the pages were lightened during editing.

Please do not reprint or republish this document for commercial gain.



BUFFALO SCALE COMPANY

Automatic Batching Scales.

An example of the adaptability of Buffalo Batching Scales is shown by this installation on a traveling larry car.

This is an exceedingly flexible line of equipment and one which lends itself to a wide range of applications. Selection of the particular units to be used depends on the operations of each individual user.

Hand operated beams with visual indication for use in connection with hand operated gates are recommended for installations where only a few batches are mixed during the day. The BUFFALO Auto-Weight is the most accurate and most easily read indicator yet devised as a warning for cutting off at a predetermined weight. BUFFALO Charging beams are all fitted with interchangeable pivots, assuring permanent accuracy at a minimum of maintenance.

For industries where batches are prepared in rapid succession or where one operator handles several batching units, automatic cut-off of each ingredient is provided. This is accomplished by mounting photo electric cells on the Auto-Weight. As the quantity of material going into the weigh hopper approaches its set capacity, the first photo-electric cell operates the mechanism controlling the flow of material to reduce the flow to a dribble feed. The second photo-electric cell cuts off the flow entirely at the predetermined weight. By this method the amount of each ingredient can be controlled to an accuracy of 1/10th of one per cent.

For plants in continuous production on a constant formula, full automatic equipment is provided. With this advanced scale it is only necessary for the operator to push a control button to mix a complete batch. Each ingredient is delivered in the desired sequence to the weigh hopper or mixer. Due to both electrical and mechanical interlock features, it is impossible to start operation in any but the proper sequence and equally impossible to skip any ingredient.

This equipment is not limited to any one means of delivery of material, but functions equally well in controlling gates, valves or conveyors of any type.

These few catalog pages permit but a meager description of our automatic batching scales. We will be pleased to mail to all who are interested, a copy of our new bulletin No. 385, entitled "Quality and Cost Control with Automatic Precision Batching by Weight." This bulletin gives a detailed description of this equipment. Our engineers are ready to consider your weighing problems and make recommendations without obligation.

THE WORLD'S STANDARD FOR THREE QUARTERS OF A CENTURY

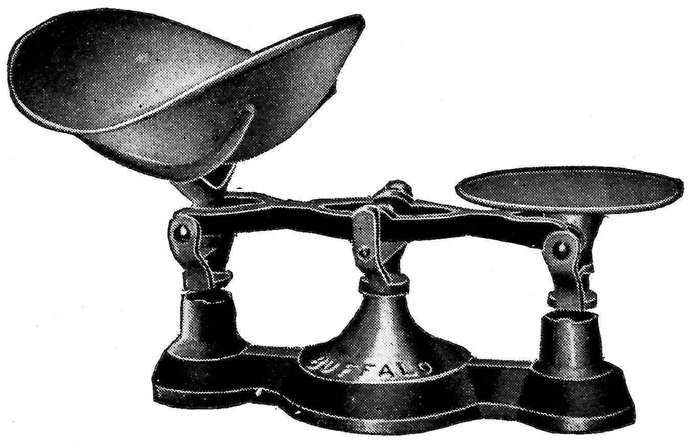
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Even-Balance Scales

Our line of even-balance scales includes everything from the scale, selling at a low price, and used by the grocer, butcher, and baker, to the finest agate-bearing scales, finished and equipped in brass and nickel. We make them with and without scoops, with and without side-beam and poise and with various equipment for special purposes, such as conveniently shaped scoops for special commodities in brass, nickel plate or tin and special shaped plates of various materials, such as iron, brass or opal glass. The line ranges from No. 592, our smallest even-balance up to our No. 607 large 50-lb. scale for heavy duty service.

Special exclusive designs are made for butter, meat, etc.

Even-Balance Scales With Scoops

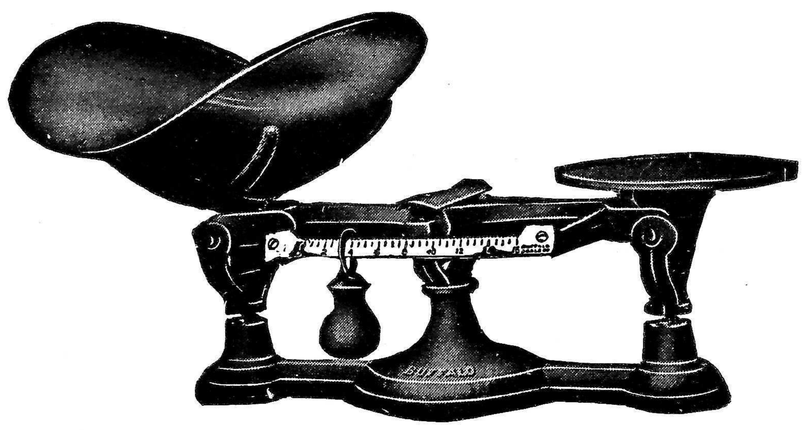


Bright Vermilion Finish

No.	Capacity	Plate	Scoop	List Price		Shipping Weight
				With Weights	Without Weights	
560	2 lbs.	4½"	Tin	$11.00	$10.00	17
562	2 lbs.	4½"	Brass	11.50	10.50	17
564	6 lbs.	6"	Tin	13.00	11.00	20
566	6 lbs.	6"	Brass	14.00	12.00	20
567	10 lbs.	7⅜"	Tin	16.00	13.00	40
569	10 lbs.	7⅜"	Brass	17.50	15.00	40
568	16 lbs.	7¼"	Tin	19.00	16.00	65
570	16 lbs.	7¼"	Brass	21.00	18.00	65
572	26 lbs.	9"	Tin	33.00	28.50	73
574	26 lbs.	9"	Brass	37.00	32.50	73

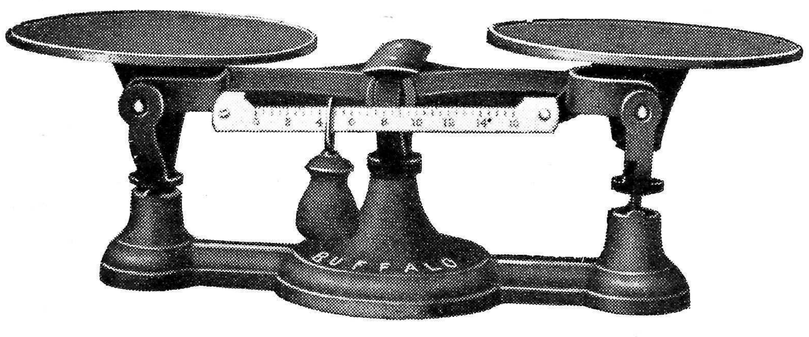
Even-Balance Scales With Scoops and Side Beams

No.	Capacity	Plate	Scoop	List Price		Shipping Weight
				With Weights	Without Weights	
576	2 lbs.	4½"	Tin	$12.00	$11.50	17
578	2 lbs.	4½"	Brass	13.00	12.50	17
580	6 lbs.	6"	Tin	14.00	13.00	20
582	6 lbs.	6"	Brass	15.00	14.00	20
583	10 lbs.	7⅜"	Tin	17.00	15.00	40
585	10 lbs.	7⅜"	Brass	18.50	17.00	40
584	16 lbs.	7¼"	Tin	20.00	18.00	65
586	16 lbs.	7¼"	Brass	22.00	20.00	65
588	26 lbs.	9"	Tin	36.00	32.00	73
590	26 lbs.	9"	Brass	39.00	36.00	73



Bright Vermilion Finish

Even-Balance Scales With Two Iron Plates



Bright Vermilion Finish

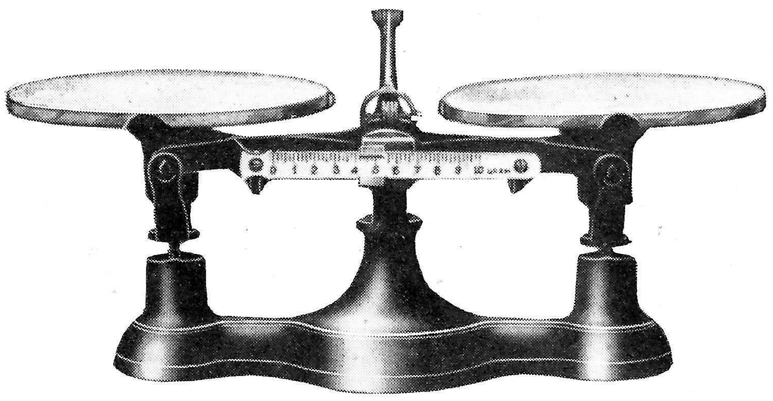
With Side Beam

No.	Capacity	Plate	List Price		Shipping Weight
			With Weights	Without Weights	
591	2 lbs.	5½"	$11.50	$11.00	20
595	6 lbs.	6¼"	13.00	12.00	30
603	10 lbs.	7"	15.50	14.00	40
609	16 lbs.	7"	18.00	16.00	60
613	26 lbs.	9"	28.50	25.50	80

Without Side Beam

No.	Capacity	Plate	List Price		Shipping Weight
			With Weights	Without Weights	
592	2 lbs.	5½"	$10.50	$ 9.00	17
596	6 lbs.	6¼"	12.50	10.50	20
599	10 lbs.	7"	14.50	12.00	40
600	16 lbs.	7"	17.00	14.00	65
604	26 lbs.	9"	26.50	22.00	73

Laboratory Trip Scales



For school laboratory work. The scale has a balance adjustment and indicator; the plates are 6 inches in diameter, opal glass. All brass parts are nickel-plated. Finish, black and gold.

No.	Capacity	Side Beam	List Price		Shipping Weight
			With Iron Weights	Without Weights	
819	2 lbs.	1 oz. x 1-100 oz.	$22.00	$20.00	15
820	1 Kilo	10 Grams x 1 Dec.	22.00	20.00	15

Agate Bearings extra list ..... $ 5.00

Set Iron Weights, rough nickeled, Hex Pattern
2 Kilos x 10 Grams 3.00

Set Brass Knob Weights, unlined, open block
1 Kilo x 10 Grams 14.50

Set Brass Knob Weights, unlined, open block
2 Kilos x 10 Grams 18.50

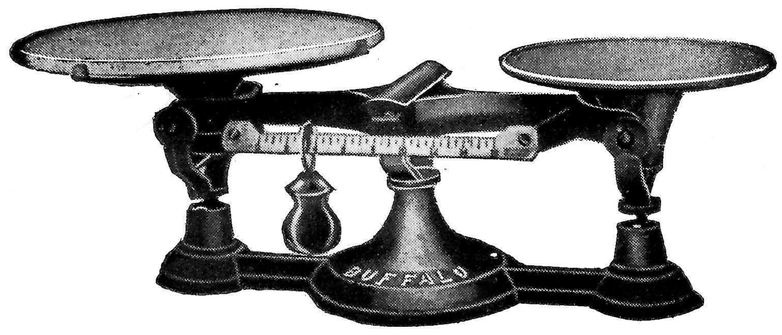
Even-Balance Scales With One Porcelain or Glass Plate

With Side Beam

No.	Capacity	Diam. of Glass Plate	List Price		Shipping Weight
			With Weights	Without Weights	
646	2 lbs.	7″	$12.00	$11.00	22
650	6 lbs.	8″	16.00	15.00	30
654	10 lbs.	10″	19.00	18.00	50
658	16 lbs.	13″	22.00	20.00	80

Without Side Beam

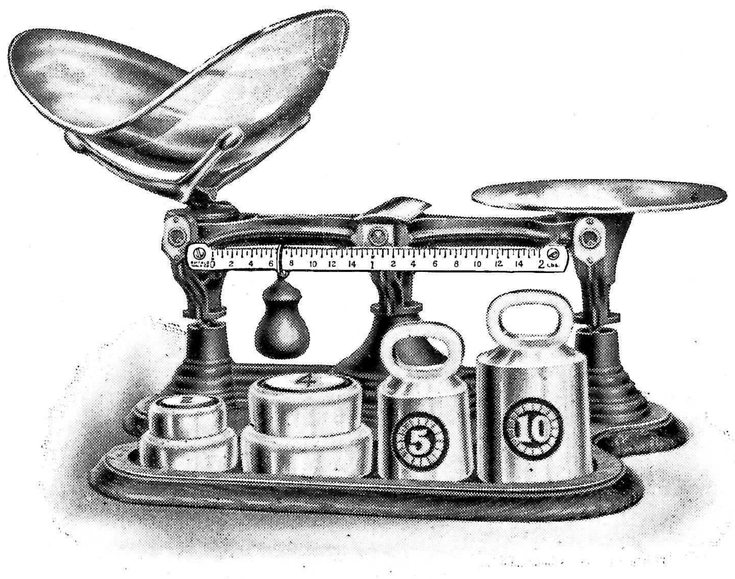
No.	Capacity	Diam. of Glass Plate	List Price		Shipping Weight
			With Weights	Without Weights	
644	2 lbs.	7″	$11.00	$10.00	22
648	6 lbs.	8″	15.00	13.00	30
652	10 lbs.	10″	18.00	16.00	50
656	16 lbs.	13″	21.00	18.00	80



Bright Vermilion Finish

These scales are well adapted to weighing butter, cold meat and similar foods. The porcelain or glass plate offers a sanitary and attractive surface. The plate for the weights on the opposite end is of cast iron.

Even-Balance Scales With Agate Bearings



With Nickel-Plated Scoop

No.	Capacity	Diam. of Plate	Side Beam	List Price With Weights	Shipping Weight
516	8 lbs.	6¼″	16 oz. x ¼ oz.	$35.50	40
528	16 lbs.	7¼″	16 oz. x ¼ oz.	45.50	55
540	27 lbs.	9¼″	32 oz. x ¼ oz.	55.00	80

With Round Pan Instead of Scoop

No.	Capacity	Diam. of Pan	Side Beam	List Price With Weights	Shipping Weight
523	8 lbs.	8″	16 oz. x ¼ oz.	$37.50	40
533	16 lbs.	10″	16 oz. x ¼ oz.	48.00	55
547	27 lbs.	13″	32 oz. x ¼ oz.	57.50	80

These agate-bearing even-balance scales are unequalled for fine weighing. The six tool steel pivots of each scale rest upon bearings of fine agate, highly polished, making the scale full jeweled. THE AGATE is one of the hardest minerals—it ranks fourth in the mineral scale of hardness, being exceeded only by the topaz, sapphire and diamond. The agate is so hard it scratches glass easily.

The scoop, shield, weight plate, side-beam and pivot caps are brass, nickel-plated. The scoop is seamless, being pressed from heavy sheet brass, and it is reinforced at four points, sides and ends. The scoop rests upon rubber tips, set into the fork, thus preventing its shifting and also protecting it from being marred. Also furnished with sugar pan or opal glass slab instead of regular scoop.

The weights are nickel-plated. A large oak baseboard is provided for the scale, and in this base there is a cloth-lined recess for the weights.

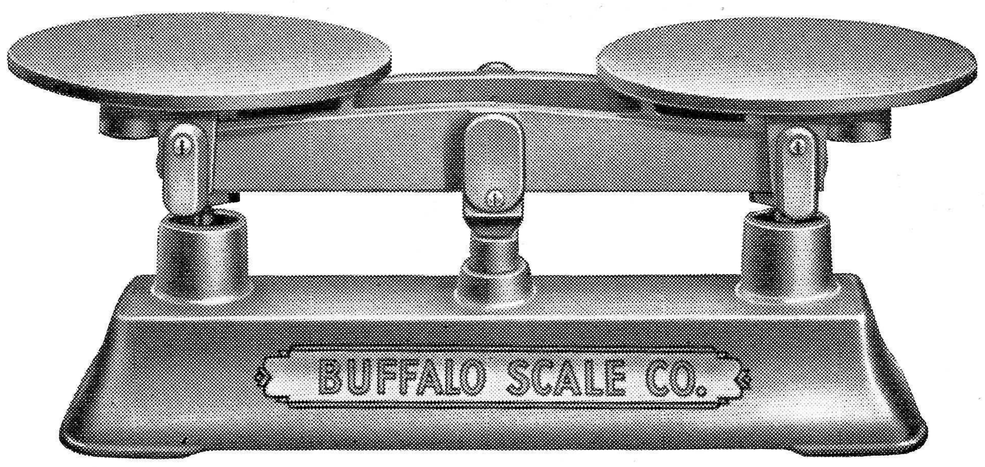
The workmanship and materials in these scales are the very finest. (The scales may be had complete as listed, or without weights and baseboard. Unless otherwise ordered, they will be sent complete.)

Even Balance Scale for the Canning Industry

This scale is especially built for the canning industry.

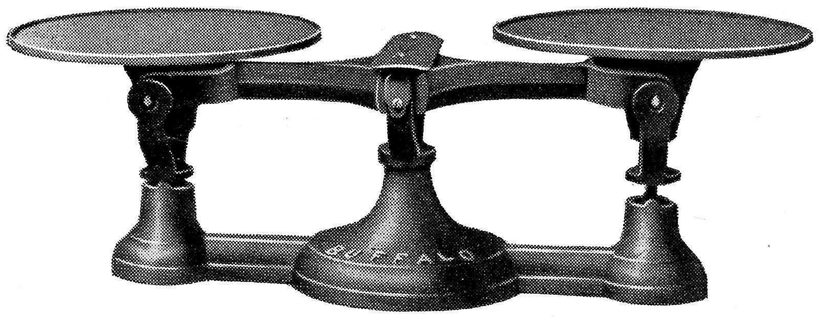
The parts are designed without recesses which would retain moisture and fruit juices.

Agate fulcrum bearings are provided to eliminate rust and friction.



Number	Capacity	List Price	Shipping Weight
610	2 lbs.	$8.75	20 lbs.

Heavy Duty Even Balance Scale



Conditions arise requiring the use of a heavier even balance scale than those furnished in our regular line. To meet these requirements we offer our special 50-lb. scale, sturdily designed for handling heavy materials. These scales may be obtained with agate bearings if so desired.

Number	Capacity	Plate	Beam	List Price Without Weights	List Price With Weights	Shipping Weight
608	50 lbs.	14-in.	None	$40.00	$61.50	120 lbs.
607	50 lbs.	14-in.	2 lbs. ½-oz.	44.00	64.00	120 lbs.

Agate Bearings

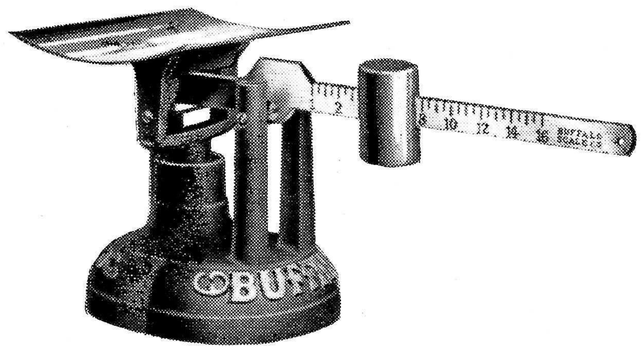
When extreme sensibility and accuracy is required or to meet conditions where corrosive materials are being handled, agate bearings can be furnished in any of our regular even balance scales at a small additional cost.

	List Price
Agate Bearings for 2 lb, 6 lb., or 10 lb. Scales	$ 5.00
Agate Bearings for 16 lb. Scales	6.25
Agate Bearings for 20 lb., or 50 lb. Scales	12.50

Postal and Express Package Scales

BUFFALO Postal and Express Package Scales are designed to cover the complete range of mailing and express service. The line starts with our sensitive 16-ounce letter scale and ranges to our 110-pound Express Package Scale for weighing heavy packages. The same fine degree of accuracy is maintained throughout the line thus insuring to the shipper that he pays the correct postage or express charges in all cases.

Postal Scales



Adopted by the United States Government, and designed for office use.

Postal Scales are finished in black and gold, and are marked in ½-oz. graduations.

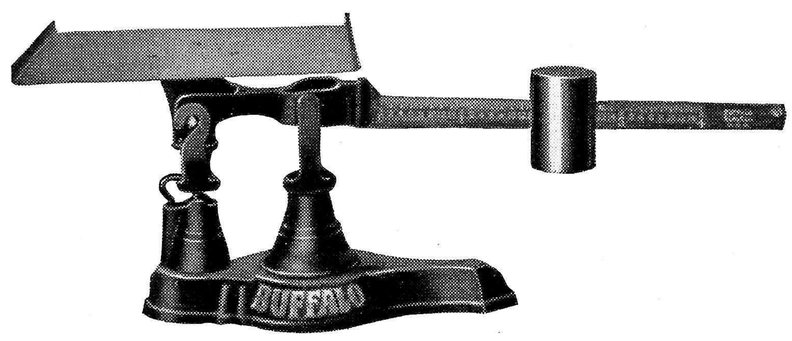
No.	Capacity	Platform Size	List Price	Shipping Weight
502	16 oz. x ½ oz.	3⅜" x 4¾"	$7.00	5

Large Postal Scales

The scale serves the double purpose of weighing letters and packages up to 4 lbs. It has also been adopted by the United States Government.

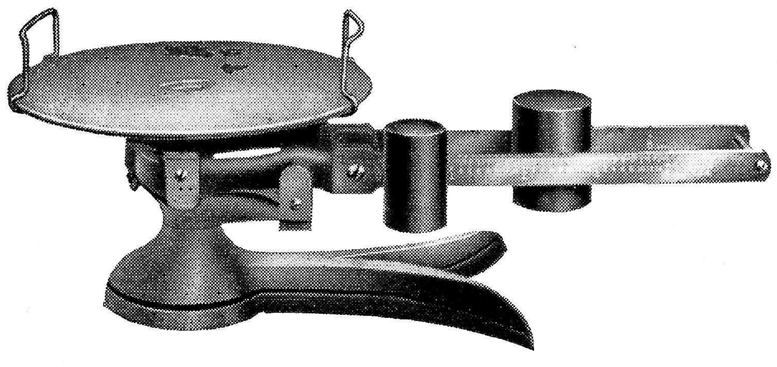
Very durable construction.

Finished in black and gold.



No.	Capacity	Platform Size	List Price	Shipping Weight
506	4 lbs. x ½ oz.	8" x 8"	$12.00	15

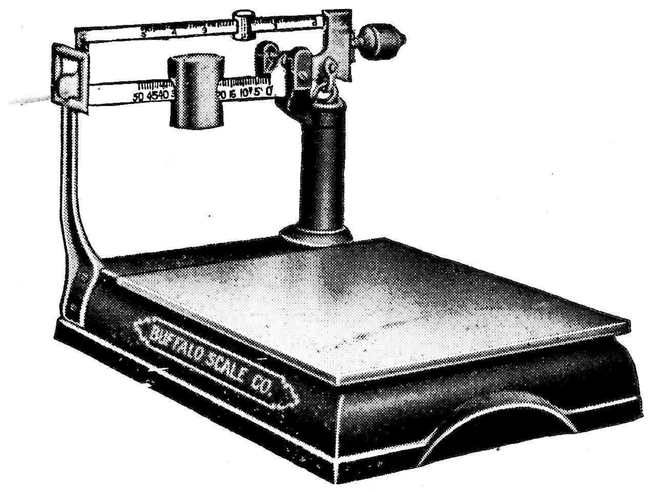
Parcel Post Scales



Designed for weighing Parcel Post packages; also suitable for use in the warehouse, home, or wherever a reliable, practical and efficient scale is required. Finished in black and gold.

No.	Capacity	List Price	Shipping Weight
510	12 lbs. x ½ oz.	$18.00	40
512	24 lbs. x 1 oz.	20.00	40

Express Package Scale



A convenient scale for express packages or general use. The beam is full capacity eliminating the necessity of handling loose weights. Very compact and sturdily built, this scale has the additional feature of self aligning bearings. The upper bar of the beam is notched 5 lbs. x 1 oz. and the lower bar 70 lbs. x 1 lb.

Finished in black with polished brass beam.

No.	Capacity	Platform	List Price	Shipping Weight
800	75 lbs. x 1 oz.	10½" x 12"	$27.00	40

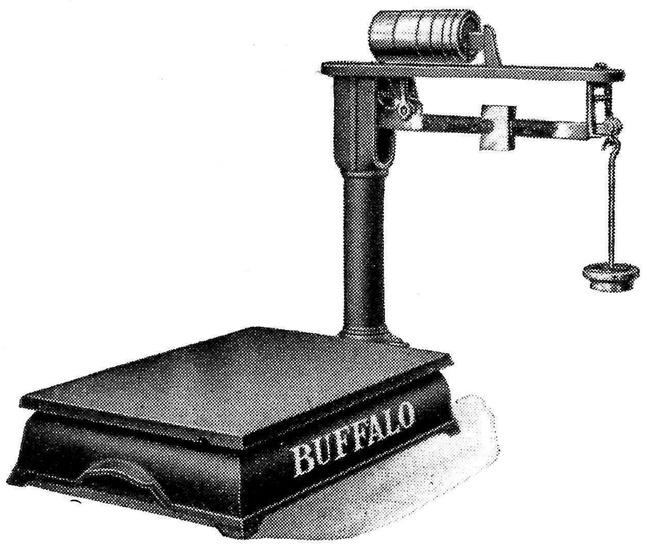
Express Package Scale

This large size package scale has a capacity of 110 lbs. No loose weights are necessary in its operation as it is equipped with a full capacity beam. The top bar is graduated 10 lbs. by 1 oz. divisions and the lower bar 100 lbs. by 10 lb. notches. The scale is equipped with self-aligning bearings. Finished in black and gold with polished brass beam.



No.	Capacity	Platform	List Price	Shipping Weight
803	110 lbs.	10" x 13¾"	$30.00	60

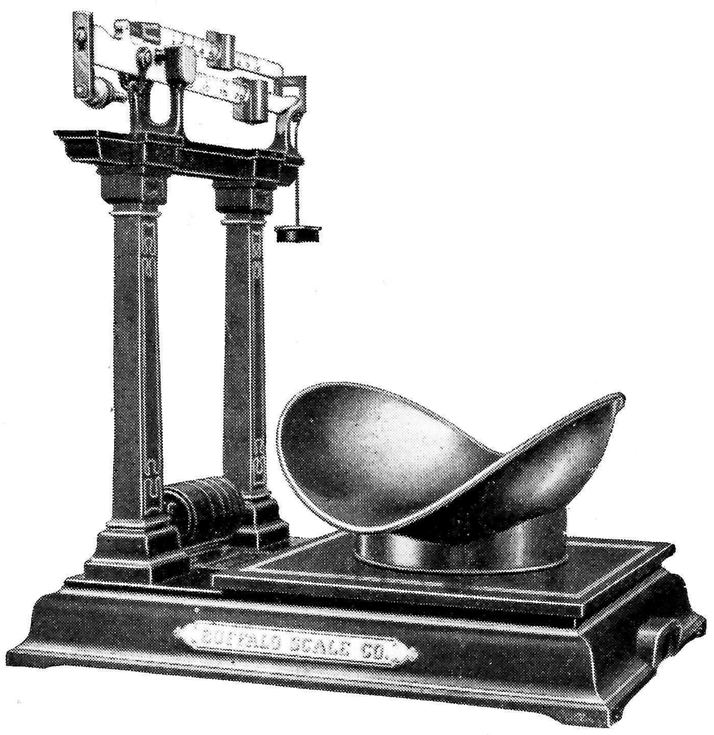
Counter Platform Scales



This scale is a most convenient size and height for wholesale houses of every description. Equipped with iron pillar and sliding brass poise.

No.	Capacity	Beam Capacity	Height	Platform	List Price	Shipping Weight
802	250 lbs x 1 oz.	5 lbs. x 1 oz.	18½"	10½ x 13¾"	$24.00	57
804	300 lbs. x 2 oz.	25 lb. x 2 oz.	23"	13½ x 19"	32.00	90
806	300 lbs. x 2 oz.	25 lb. x 2 oz.	35"	13½ x 19"	35.00	110

Counter Platform Scales



Niagara Counter Scale With Self-aligning Bearings

The Niagara Counter Scale is a handsome double pillar, double beam scale; exceptionally sensitive and durable. It has a capacity of 255 lbs. x 1 oz., platform 12¾ x 13¾ inches with marble slab or tin or brass scoop. The beam is nickel-plated.

Beam—Top Bar: 10 lbs. x 1 oz.
Lower Bar: 25 lbs. x 4 oz.

No.	Capacity	Scoop	List Price With Scoop	List Price Without Scoop	Shipping Weight
797	255 lbs.	Large Tin	$36.00	$34.00	85
799	255 lbs.	Large Brass	38.00	34.00	85
677	255 lbs.	Marble Slab	. . . .	36.00	85

Laboratory Platform Scales

The BUFFALO Laboratory Platform Scale is in use in the laboratories of over thirty universities. Similar in appearance to the Niagara, without scoop, it is equipped with agate bearings, and beam indicator to insure fine weighing. The top bar of the beam can be graduated 1 lb. by 1/100 lb. graduations or either 1 or 3 lbs. by ¼ oz. graduations. The lower bar is graduated 25 lbs. by 1 lb. The scale is also manufactured with special two or three bar beams to meet individual needs. Total capacity of scale 250 lbs.

Union Scales

The BUFFALO type of Union Scale is exceptionally popular for general purposes, as it can be used for both a platform and scoop scale. They are made with a single or double beam, have a scoop capacity of 30 lbs. x ½ oz., and a platform capacity of 240 lbs. x ¼ lbs., and equipped with various styles of tin and brass scoops, and self-aligning bearings. The platform is 10 x 13¾ inches.

With Single Beam

No.	Capacity	Scoop	List Price	Shipping Weight
768	240 lbs.	Tin	$20.00	60
770	240 lbs.	Brass	22.00	60

With Double Beam

No.	Capacity	Scoop	List Price	Shipping Weight
772	240 lbs.	Tin	$22.00	60
774	240 lbs.	Brass	24.00	60



Suspended Platform Counter Scale

This scale is designed for very close weighing. The platform is suspended from the bearings. Agate bearings are used for the beam support. Scale is equipped with tall pillars and a large platform 16″ x 18″. Will be furnished with different two and three bar beam combinations. Regular beam has top bar 10 lbs. x 1 oz. Middle bar 100 lbs. x 10 lbs. Lower bar 25 lbs. x ¼ lbs. Attractively finished in white enamel.

No.	Capacity	Platform	List Price	Shipping Weight
999	135 lbs. x 1 oz.	16″ x 18″	$100.00	126

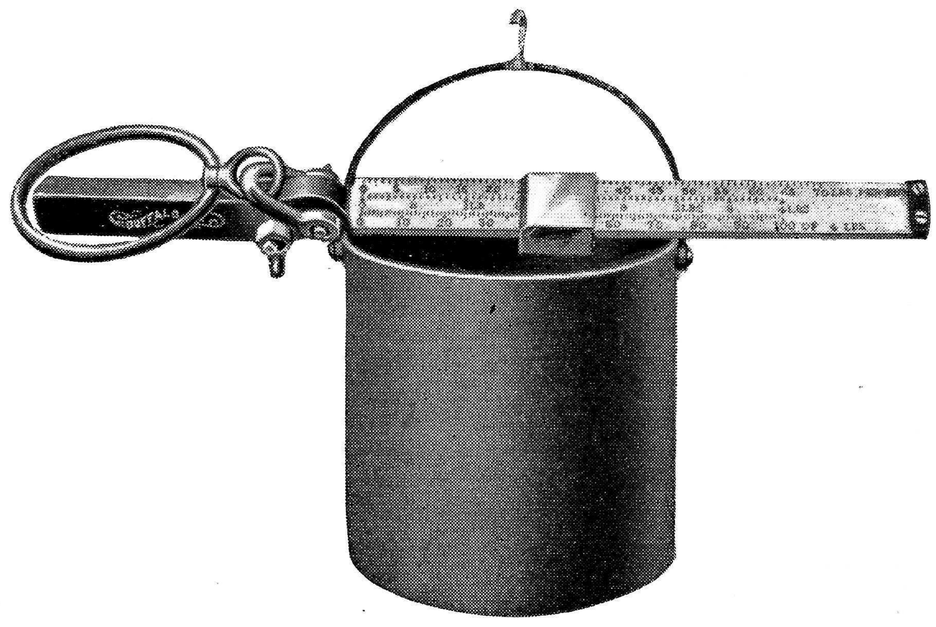
Grain Testers

The Buffalo Grain Tester is constructed so that when the cup is empty the beam balances with the poise set at zero. There are upon the beam three rows of marks, which indicate respectively:

1st—The number of pounds a sample will weigh to the bushel.

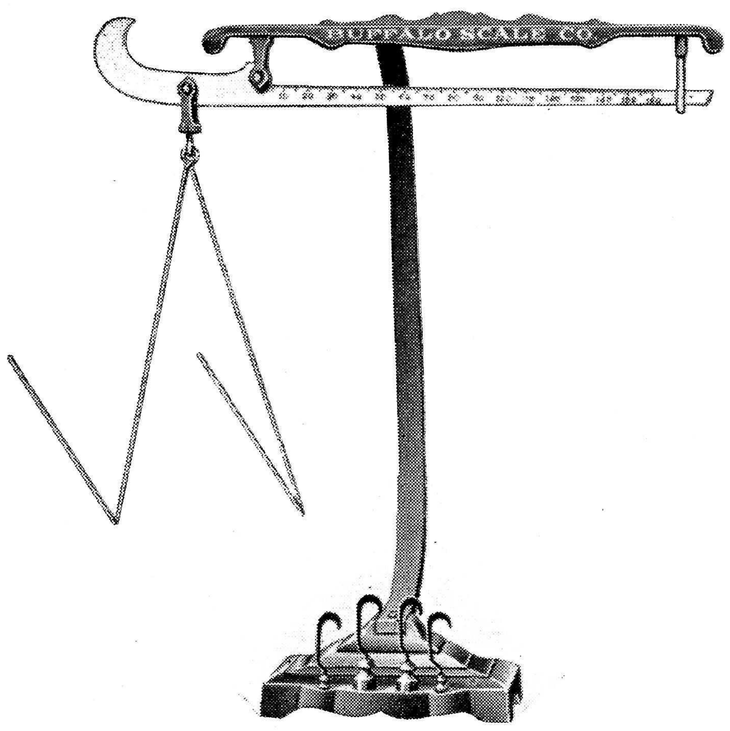
2nd—The exact weight of sample.

3rd—The per cent of loss after cleaning.



No.	Capacity	List Price	Shipping Weight
1764	½ pint	$15.00	10
1763	1 pint	15.00	11
1765	1 quart	16.00	6
1767	2 quarts	18.00	15

Paper Beams



For determining the number of pounds to the ream by the weight of one sheet. Weights indicating 480 sheets and 500 sheets to the ream furnished unless otherwise ordered.

These beams are notched on the top and have hanging poises, making them much more accurate than the ordinary smooth beam with sliding poise.

In use, a single sheet is placed on the scale and the result indicates the number of pounds a ream of either 480 or 500 sheets will weigh.

The front side of the beam is graduated 160 lbs. x 1 lb., and is used with the heavy poise.

The backside, 40 lbs. x ¼ lb. and is used with the light poise.

No.	List Price	Shipping Weight
No. 810 Hung from stand	$30.00	15
No. 812 Hung from bracket to attach to post or wall	24.00	15

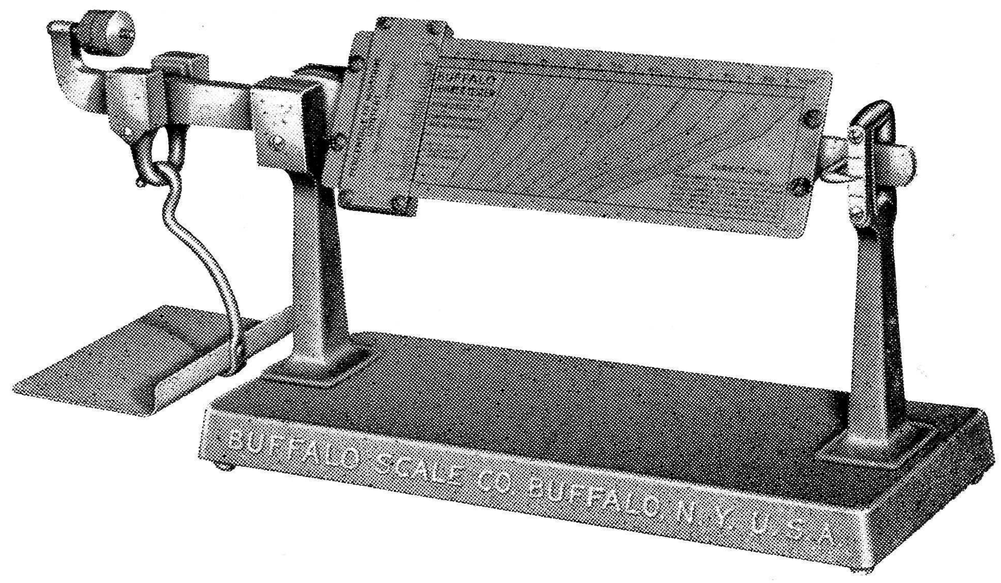
Lumber Tester With Direct Reading Computing Beam

For Determining Percentage of Moisture In Lumber

The Buffalo Lumber Tester is an easily operated scale with an unique chart by which the moisture content of lumber, veneers, rubber, paper, pulp, etc., may be determined without figuring or computations.

The scale is finely made with agate bearings. It is graduated in the metric system 0 to 100 grams by half grams and may be used for ordinary weighing.

A large descriptive circular showing the detail of this scale and an explanation of its operation will be furnished on application.



No.	Capacity	Platform	Overall Length	Price	Shipping Weight
709	100 x ½ gram	3¾" x 2⅝"	12½"	$25.00	7

THE WORLD'S STANDARD FOR THREE QUARTERS OF A CENTURY

Unequal-Arm Balances

The great variety of unequal-arm balances that we make is typical of the whole BUFFALO line, in which we aim to supply a scale for practically every use to which a scale can be put. Our unequal-arm balances are made with or without counterpoises; with both single and double beam; in every variety of finish, and with almost every known kind of equipment.

This being one of the most efficient, and therefore one of the most popular types of scales in our line, we have a number of specially designed and equipped patterns for special purposes.

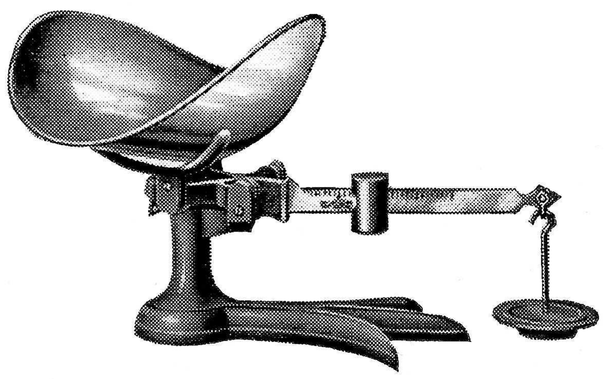
Counter Scales With Scoops or Plates

This low price and popular scale serves a wide variety of purposes. It is of general use in hardware stores for weighing nails and similar materials.

It is also a good scale for weighing vegetables and other foods in bulk.

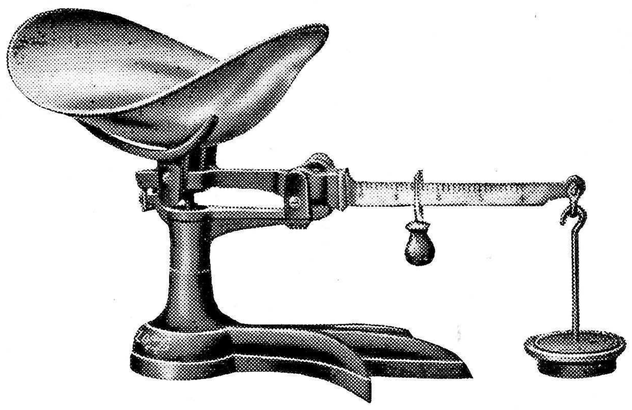
It is furnished with either a tin or brass scoop or with round iron plate and no scoop.

Finished in black with gold trim.



No.	Capacity	Beam	Scoop	List Price	Shipping Weight
734	36 lbs.	2 lbs. x ½ oz.	Tin	$15.00	50
736	36 lbs.	2 lbs. x ½ oz.	Brass	17.00	50
737	36 lbs.	8 oz. x 1/16 oz.	Tin	18.00	50
738	36 lbs.	8 oz. x 1/16 oz.	Brass	21.00	50
746	36 lbs.	8 oz. x 1/16 oz.	Iron Plate	14.00	50

Fine Weighing Counter Scales

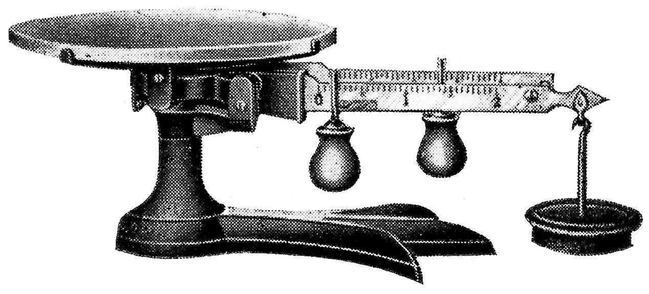


A convenient size for chemists and druggists, where small quantities of dry materials must be weighed with precision.

No.	Capacity	Beam	Scoop	List Price	Shipping Weight
716	8 lbs.	4 oz. x 1/16 oz.	Tin	$12.00	25
718	8 lbs.	4 oz. x 1/16 oz.	Brass	14.00	25

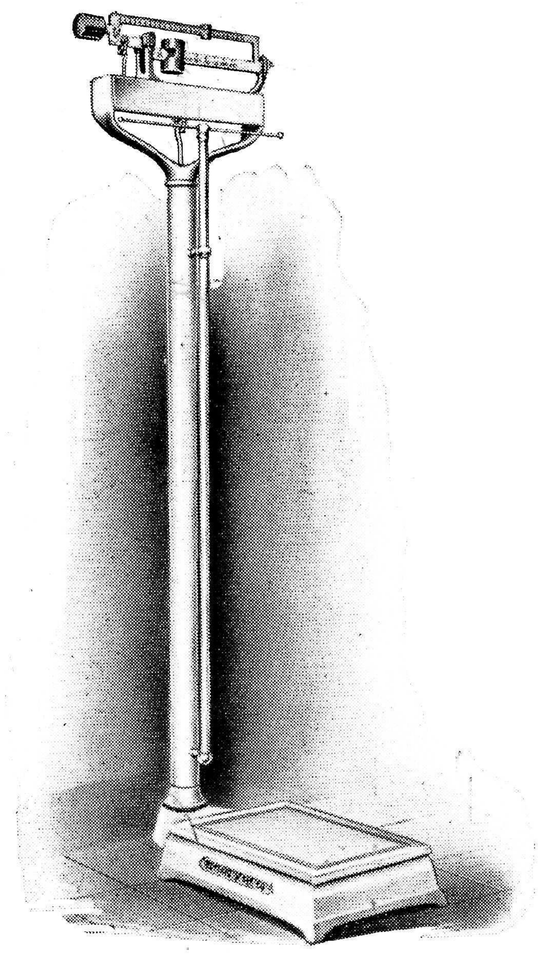
Meat and Butter Scales

The Meat and Butter Scale is furnished with a 10″ diameter opal glass plate which provides a sanitary surface for weighing foods. It has a capacity of 25 lbs. and the beam is graduated by ½ oz. notches. This scale is handsomely finished in black and gold.



No.	Capacity	Plate	Beam	List Price	Shipping Weight
668	25 lbs.	10″ Diam.	Single	$15.00	55
670	25 lbs.	10″ Diam.	Double	17.00	55

Personal Health Scales



This Scale is suitable for use in private homes, and especially in bathrooms. It is constructed of iron and brass—throughout, with a tall pillar which places the beam on a level with the eye. It is finished in white or black enamel, the beams and poises are brass nickel-plated. Rubber mat furnished on platform at an additional price. The beams are full capacity by ¼ lbs. Platform 10 x 13¾ inches.

No.	Capacity	Platform	List Price	Shipping Weight
830	300 lbs. x ¼ lb.	10" x 13¾"	$36.00	100
832	300 lbs. x ¼ lb.	10" x 13¾" (with measuring rod)	48.00	100

PHYSICIANS' SCALES, heavier pattern with platform 13¾ x 19 inches. Regularly furnished in black enamel only. Finished in white enamel at extra list of $6.00.

No.		List Price	Shipping Weight
821	Without measuring rod	$46.00	150
823	With measuring rod	58.00	162

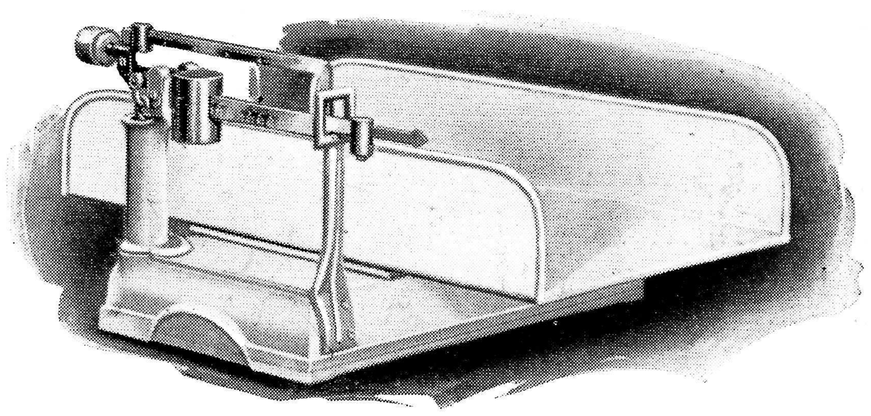
Baby Scale

The "Buffalo" Baby Scale was designed to meet the needs of Hospitals and Health Centers. It is the results of many years' experience and has the approval of this country's most prominent Hospitals and Hospital Equipment Dealers.

It combines "Buffalo" accuracy with the most sanitary finish known—PORCELAIN ENAMEL.

Every modern refinement is included, such as Agate-Beam Bearings, Single-Piece Curled Edge Steel Tray, Full Capacity Beam, Self-Aligning Bearings and Sliding Poise, with Set Screw for balancing the weight of Pad or Blanket used in weighing.

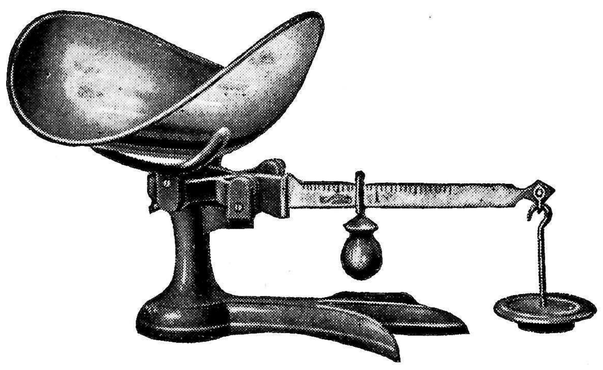
This scale is exceedingly light in weight—31 lbs. complete—and can be easily moved as the occasion demands.



Size of Tray: 24" long by 12" wide.

No.	Capacity	List Price	Shipping Weight
805	52 lbs. x ¼ oz.	$45.00	55

Baby Scale For Home Use



The weight of a growing baby should be checked daily. This scale is convenient for such a purpose. It has accuracy which is not obtainable in the spring type of baby scales. Attractively finished in white enamel.

No.	Capacity	Beam	Scoop	List Price	Shipping Weight
801	36 lbs.	2 lbs. x ½ oz.	Tin	$18.00	50

Tables of Normal Weights
According to Height and Age

For Women

Height Inches	19 Yrs.	20 Yrs.	21-22 Yrs.	23-24 Yrs.	25-29 Yrs.	30-34 Yrs.	35-39 Yrs.	40-44 Yrs.	45-49 Yrs.	50-54 Yrs.
58	98	102	106	110	113	116	119	123	126	129
59	103	107	109	112	115	118	121	125	128	131
60	109	112	113	115	117	120	123	127	130	133
61	113	115	116	118	119	122	125	129	132	135
62	116	118	119	120	121	124	127	132	135	138
63	120	121	122	123	124	127	130	135	138	141
64	123	124	125	126	128	131	134	138	141	144
65	126	127	128	129	131	134	138	142	145	148
66	129	130	131	133	135	138	142	146	149	152
67	131	133	135	137	139	142	146	150	153	156
68	135	137	139	141	143	146	150	154	157	161
69	138	140	142	145	147	150	154	158	161	165
70	141	143	145	148	151	154	157	161	164	169
71	145	147	149	151	154	157	160	164	168	173
72	150	152	154	156	158	161	163	167	171	176

For Men

Height Inches	19 Yrs.	20 Yrs.	21-22 Yrs.	23-24 Yrs.	25-29 Yrs.	30-34 Yrs.	35-39 Yrs.	40-44 Yrs.	45-49 Yrs.	50-54 Yrs.
60	107	110	114	118	122	126	128	131	133	134
61	112	115	118	121	124	128	130	133	135	136
62	117	120	122	124	126	130	132	135	137	138
63	121	124	126	128	129	133	135	138	140	141
64	124	127	129	131	133	136	138	141	143	144
65	128	130	132	134	137	140	142	145	147	148
66	132	133	136	138	141	144	146	149	151	152
67	136	137	140	142	145	148	150	153	155	156
68	140	141	143	146	149	152	155	158	160	161
69	144	145	147	150	153	156	160	163	165	166
70	148	149	151	154	157	161	165	168	170	171
71	153	154	156	159	162	166	170	174	176	177
72	158	160	162	165	167	172	176	180	182	183
73	163	165	167	170	173	178	182	186	188	190
74	168	170	173	176	179	184	189	193	195	197
75	173	175	178	181	184	190	195	200	202	204
76	178	180	183	186	189	196	200	206	209	211
77	183	185	188	191	194	201	207	212	215	217

The weights and heights for men and women are without clothing.

For Girls

Height Inches	5 Yrs.	6 Yrs.	7 Yrs.	8 Yrs.	9 Yrs.	10 Yrs.	11 Yrs.	12 Yrs.	13 Yrs.	14 Yrs.	15 Yrs.	16 Yrs.	17 Yrs.	18 Yrs.
38	33	33												
39	34	34												
40	36	36	36											
41	37	37	37											
42	38	39	39											
43	41	41	41	41										
44	42	42	42	42										
45	45	45	45	45	45									
46	47	47	47	48	48									
47	49	50	50	50	50	50								
48	....	52	52	52	52	53	53							
49	....	54	54	55	55	56	56							
50	....	56	56	57	58	59	61	62						
51	....	....	59	60	61	61	63	65						
52	....	....	63	64	64	64	65	67						
53	....	....	66	67	67	68	68	69	71					
54	....	....	....	69	70	70	71	71	73					
55	....	....	....	72	74	74	74	75	77	78				
56	....	....	....	....	76	78	78	79	81	83				
57	....	....	....	....	80	82	82	82	84	88	92			
58	....	....	....	....	....	84	86	86	88	93	96	101		
59	....	....	....	....	....	87	90	90	92	96	100	103	104	
60	....	....	....	....	....	91	95	95	97	101	105	108	109	111
61	....	....	....	....	....	....	99	100	101	105	108	112	113	116
62	....	....	....	....	....	....	104	105	106	109	113	115	117	118
63	....	....	....	....	....	....	....	110	110	112	116	117	119	120
64	....	....	....	....	....	....	....	114	115	117	119	120	122	123
65	....	....	....	....	....	....	....	118	120	121	122	123	125	126
66	....	....	....	....	....	....	....	....	124	124	125	128	129	130
67	....	....	....	....	....	....	....	....	128	130	131	133	133	135
68	....	....	....	....	....	....	....	....	131	133	135	136	138	138
69	....	....	....	....	....	....	....	....	....	135	137	138	140	142
70	....	....	....	....	....	....	....	....	....	136	138	140	142	144
71	....	....	....	....	....	....	....	....	....	138	140	142	144	145

For Boys

Height Inches	5 Yrs.	6 Yrs.	7 Yrs.	8 Yrs.	9 Yrs.	10 Yrs.	11 Yrs.	12 Yrs.	13 Yrs.	14 Yrs.	15 Yrs.	16 Yrs.	17 Yrs.	18 Yrs.
38	34	34												
39	35	35												
40	36	36												
41	38	38	38											
42	39	39	39	39										
43	41	41	41	41										
44	44	44	44	44										
45	46	46	46	46	46									
46	47	48	48	48	48									
47	49	50	50	50	50	50								
48	....	52	53	53	53	53								
49	....	55	55	55	55	55	55							
50	....	57	58	58	58	58	58	58						
51	....	....	61	61	61	61	61	61						
52	....	....	63	64	64	64	64	64	64					
53	....	....	66	67	67	67	67	68	68					
54	....	....	....	70	70	70	70	71	71	72				
55	....	....	....	72	72	73	73	74	74	74				
56	....	....	....	75	76	77	77	77	78	78	80			
57	....	....	....	....	79	80	81	81	82	83	83			
58	....	....	....	....	83	84	84	85	85	86	87			
59	....	....	....	....	....	87	88	89	89	90	90	90		
60	....	....	....	....	....	91	92	92	93	94	95	96		
61	....	....	....	....	....	....	95	96	97	99	100	103	106	
62	....	....	....	....	....	....	100	101	102	103	104	107	111	116
63	....	....	....	....	....	....	105	106	107	108	110	113	118	123
64	....	....	....	....	....	....	....	109	111	113	115	117	121	126
65	....	....	....	....	....	....	....	114	117	118	120	122	127	131
66	....	....	....	....	....	....	....	....	119	122	125	128	132	136
67	....	....	....	....	....	....	....	....	124	128	130	134	136	139
69	....	....	....	....	....	....	....	....	....	137	139	144	146	149
70	....	....	....	....	....	....	....	....	....	143	144	146	148	151
71	....	....	....	....	....	....	....	....	....	148	150	151	152	154
72	....	....	....	....	....	....	....	....	....	....	153	155	156	158
73	....	....	....	....	....	....	....	....	....	....	157	160	162	164
74	....	..	....	....	....	....	....	....	....	....	160	164	168	170
67	....	....	....	....	....	....	....	....	124	128	130	134	136	139

The above revised tables prepared by Dr. Thomas D. Wood and Dr. Bird T. Baldwin are included through the courtesy of the American Child Health Association.

Age is taken at the nearest birthday, height at the nearest inch, and weight at the nearest pound. The above weights are inclusive of regular clothing, except shoes, coats and sweaters.

Normal Weights of Infants

Age	Height	GIRLS Lbs.	GIRLS Ounces	BOYS Lbs.	BOYS Ounces	Age	Height	GIRLS Lbs.	GIRLS Ounces	BOYS Lbs.	BOYS Ounces
Birth	.....	7	8½	7	12	5 months	23½ in.	15	..	15	..
1 week	.....	7	7	7	10	6 months	24 in.	16	4	16	8
2 weeks	.....	7	10½	7	13½	7 months	24½ in.	17	4	17	8
3 weeks	20½ in.	8	2¼	8	5	8 months	25 in.	18	4	18	8
1 month	19 in.	8	12	9	..	9 months	25½ in.	18	12	19	..
2 months	21 in.	10	12	11	..	10 months	26 in.	19	12	20	..
3 months	22 in.	12	4	12	8	11 months	26½ in.	20	8	21	12
4 months	23 in.	13	12	14	..	1 year	27 in.	21	8	22	12

For one year to five years the average gain is approximately four pounds per year and height, three to four inches per year.

THE WORLD'S STANDARD FOR THREE QUARTERS OF A CENTURY

Portable Platform Scales With Bag Racks



The bag rack on platform prevents bags or any bulky material from leaning against pillar, and makes scale desirable for weighing articles of all kinds in bags.

Will be furnished without wheels if desired.

No.	Capacity	Beam	Platform	List Price	Shipping Weight
1300	500 lbs.	50 lb. x ¼ lb.	16″ x 25″	$38.00	185
1304	1,000 lbs.	100 lb. x ½ lb.	17″ x 26″	48.00	210
1308	1,500 lbs.	100 lb. x ½ lb.	21″ x 30″	68.00	355
1310	2,000 lbs.	100 lb. x ½ lb.	24″ x 33″	88.00	490

Double beam can be furnished on any size platform scale, but it is not recommended for drop lever scales.

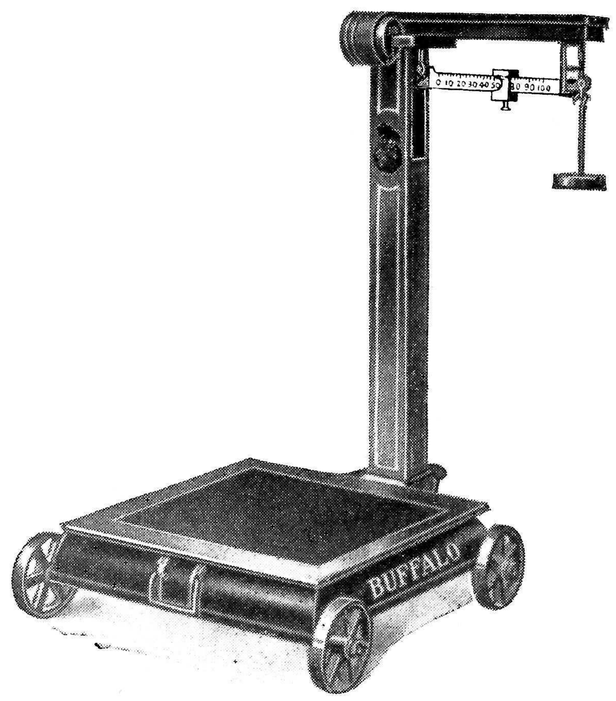
Extra for double beam 500 lbs. Scales, $8.00.

Extra for double beam 1,000 to 2,500 lbs. Scales, $10.00.

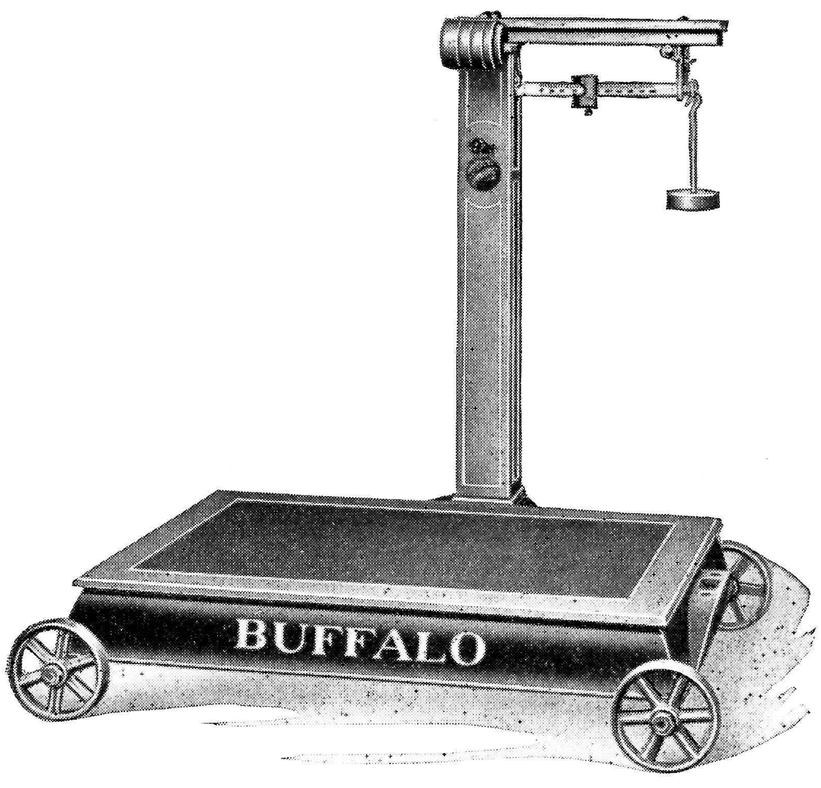
Portable Scales With Square Platforms

This Scale is designed to meet the demand for scales adapted for weighing bulky articles. It offers about 30% more platform room than the old style platform scale.

No.	Capacity	Platform	List Price With Wheels	List Price Without Wheels	Shipping Weight
1324	500 lb. x ¼ lb.	23″ x 23″	$ 59.00	$ 57.00	250
1326	1,000 lb. x ½ lb.	25″ x 25″	67.00	63.00	270
1330	1,500 lb. x ½ lb.	29″ x 29″	88.00	84.00	420
1332	2,000 lb. x ½ lb.	31″ x 31″	118.00	113.00	445



Large Platform Portable Scales



These Scales are especially suited for use in packing houses, flour mills and feed stores, for weighing meats, grain, flour in bags, and all bulky commodities.

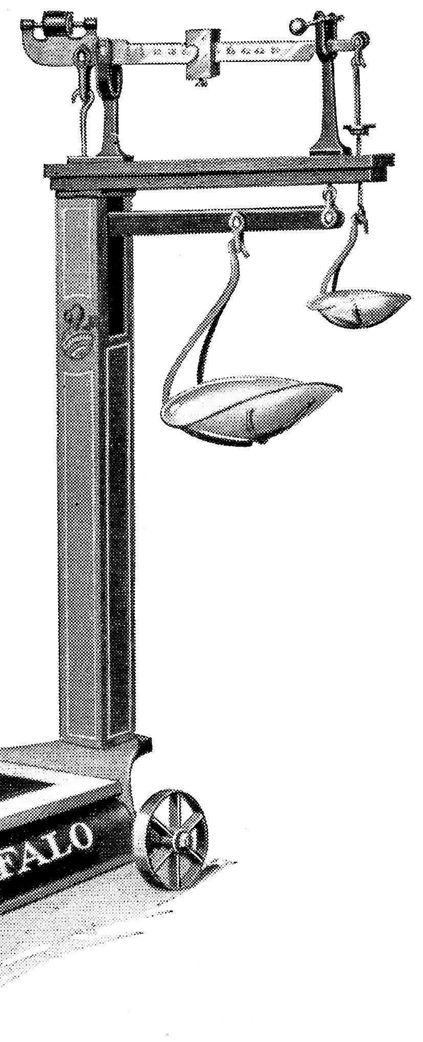
Double beam, bag rack or drop lever can be furnished at extra list.

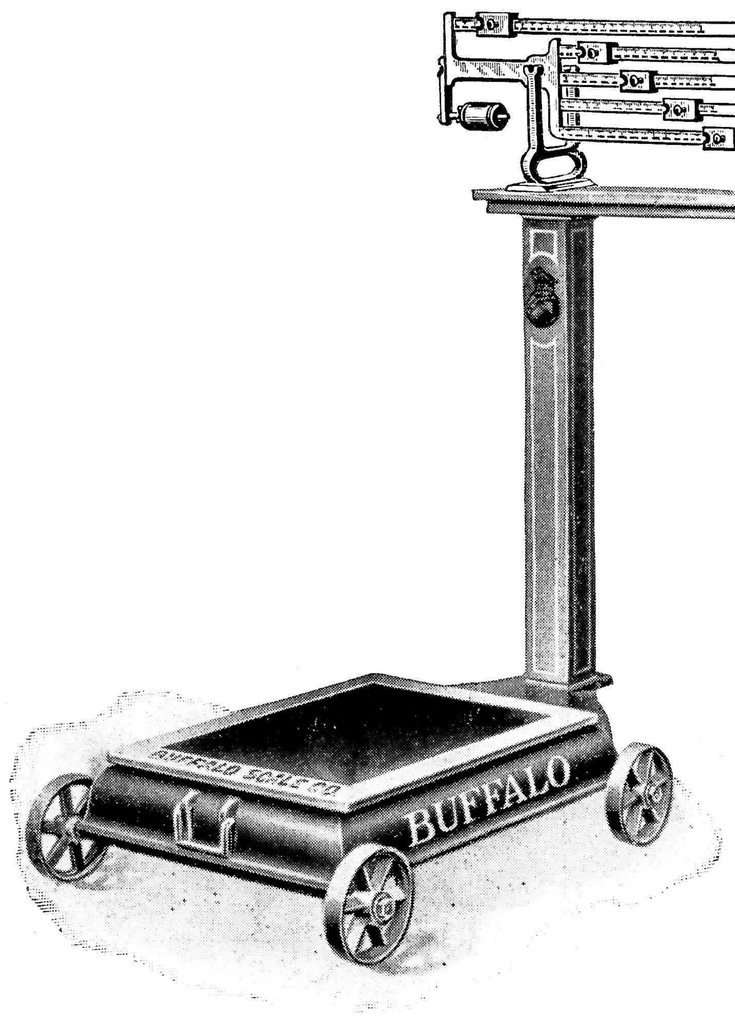
No.	Capacity	Platform	List Price	Shipping Weight
1442	1,000 lbs.	42″ x 30″	$100.00	620
1448	2,000 lbs.	44″ x 35″	120.00	680

Counting Scales

Counting scales have a ratio between the platform and the small scoop of 100 to 1. Therefore, 100 pieces on the platform will be balanced by one placed in the small scoop hung from the tip of the beam and so on. Similarly the ratio between the large scoop and the small scoop is 20 to 1, so that 20 pieces in the large scoop will be balanced by one piece in the small scoop. These scales will also give actual weight of material and may be used as ordinary portable weighing scales, if desired.

No.	Capacity	Beam	Platform	List Price	Shipping Weight
1260	500 lbs.	50 lbs. x ¼ lb.	16″ x 25″	$65.00	270
1262	1,000 lbs.	100 lbs. x ½ lb.	17″ x 26″	75.00	270





Dairy Scales

For Cheese Factory and Dairy

This scale is equipped with multiple bar beams.

A large container is placed on the platform and the bars may be used to indicate the separate weights of milk received from each farmer until container is filled.

Beam Markings: No. 1422 Scale—Upper Bar graduated 250 x 1 lb. Four other bars graduated 100 x ½ lb. No. 1424 Scale—Two upper bars graduated 250 x 1 lb. Five other bars 100 x ½ lb.

No.	Capacity	Platform	No. Bars	List Price	Shipping Weight
1422	600 lbs.	16″ x 25″	5	$72.00	220
1424	1,000 lbs.	17″ x 26″	7	85.00	255

Milk Scales

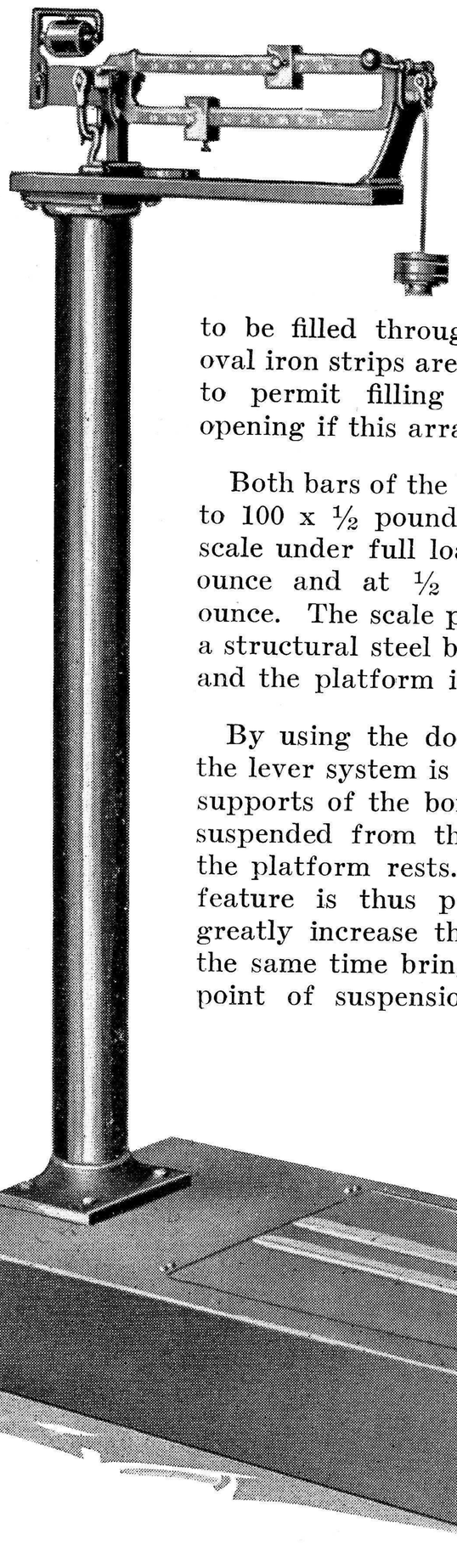
All metal with drop lever and wheels.

This scale is used in creameries, cheese factories and milk depots. It has a special large platform 30 in. x 30 in.

This scale is also furnished with Multiple-bar beam on top of cap, similar to the beam shown on scale above.

No.	Capacity	Beam	Platform	List Price	Shipping Weight
1345	1,000 lb. x ½ lb.	Single Beam	30″ x 30″	$85.00	585
1347	620 lb. x ½ lb.	5 Beams	27″ x 23″	90.00	600
1349	1,030 lb. x ½ lb.	7 Beams	30″ x 30″	135.00	615

Drum Filling Scale



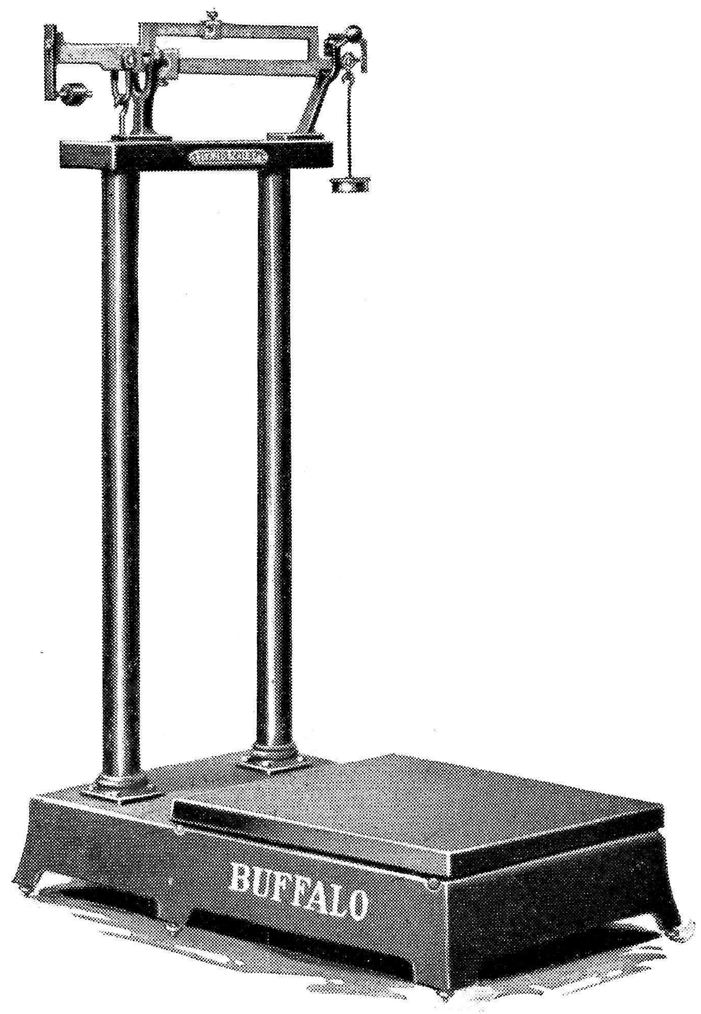
The scale illustrated is specially designed and constructed for the ready and accurate weighing of drums, barrels, and other heavy loads. The beam is sufficiently elevated to allow drums or barrels to be filled through the end opening while oval iron strips are provided on the platform to permit filling through the side bung opening if this arrangement is preferable.

Both bars of the brass beam are graduated to 100 x ½ pounds. The sensitivity of the scale under full load of 1,000 pounds is one ounce and at ½ load of 500 pounds, ½ ounce. The scale parts are self-contained in a structural steel box of heavy rolled section and the platform is of heavy steel plate.

By using the double suspension principle the lever system is suspended from the main supports of the box and in turn a spider is suspended from the lever system on which the platform rests. A perfect self-aligning feature is thus produced which tends to greatly increase the scale accuracy and at the same time bring the platform inside the point of suspension, eliminating any possibility of the platform tipping when loads are placed or removed. The self-aligning loop and bearing arrangement absolutely prevents any change of balance under the severest usage, a feature not found in ordinary weighing equipment.

The scale can be furnished with roller conveyor sections and ball bearing casters, for portable units, at a slight additional expense.

No.	Capacity	Platform	List Price	Shipping Weight
1110	1,500 lbs. x ½ lb.	17″ x 23¾″	$150.00	538



Special Platform Scales

For Fine Weighing

DOUBLE BEAM: Upper Bar may be graduated 2 pounds x ½ ounce, or 10 pounds x 1 ounce.

Lower Bar 25 pounds x 1 pound. The balance of the capacity made up with loose weights, used at tip of the beam.

Agate-Beam Bearings.

Lever system especially designed with interchangeable pivots. Platform is suspended on frame, eliminating tipping. Levers directly connected with beam.

The feet are provided with leveling screws.

Height over-all 54 inches.

Length over-all 36 inches.

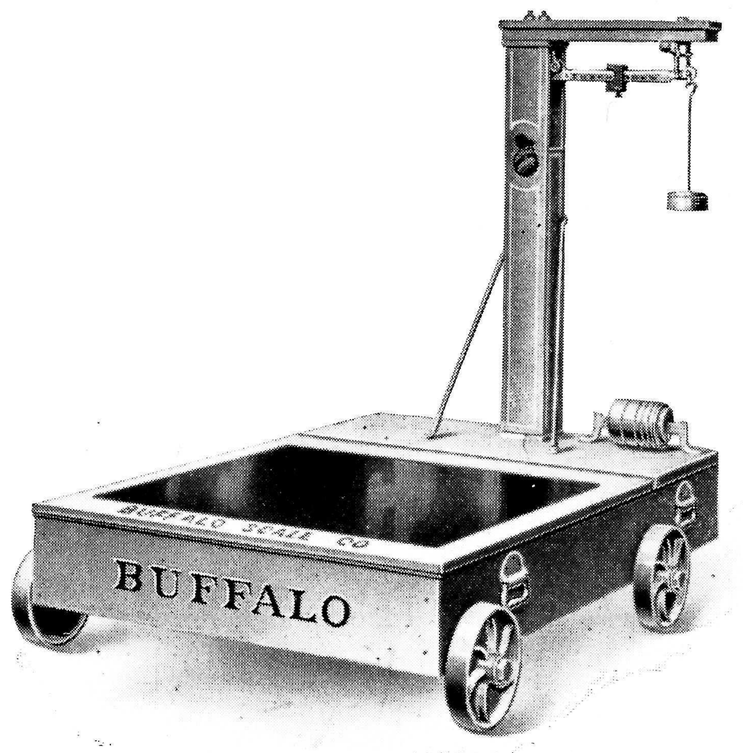
Poises equipped with non-removable set screws. Balance indicator provided at the tip of the beam.

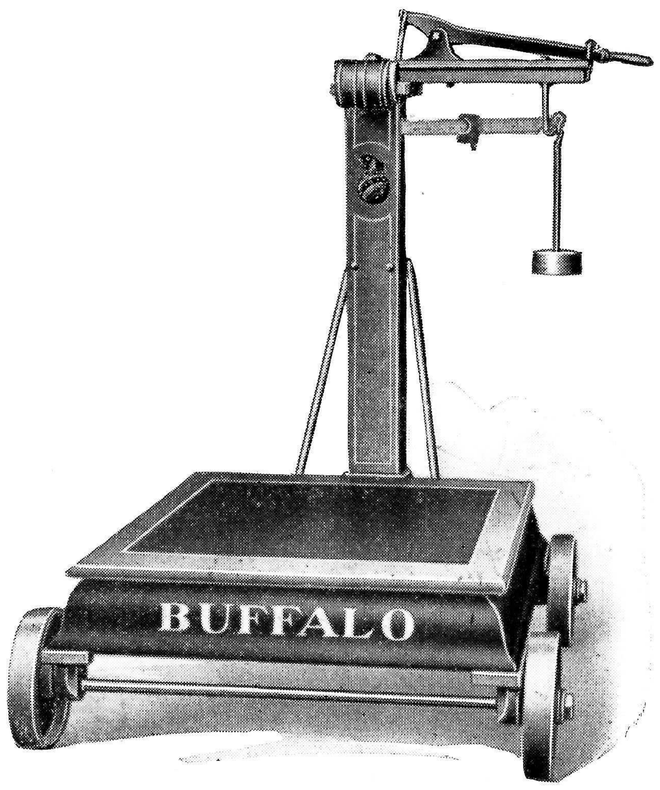
No.	Capacity	Platform	List Price	Shipping Weight
1100	400 lbs.	20″ x 22″	$140.00	310

Portable Warehouse Scales

These scales are designed for warehouse and factory weighing where a heavy scale with large platform is needed at various locations. Large wheels and handles on the box make it easy to move the scale from one department to another. The pillar is rigidly braced and the weights are carried in a rack on the box to avoid loss while moving scale. Can be furnished with drop lever, if desired, at an additional list price of $10.00.

No.	Capacity	Platform	Platform to Pillars	List Price	Shipping Weight
1541	2,500 lbs. x ½ lb.	46″ x 37″	12½″	$150.00	760
1544	3,500 lbs. x ½ lb.	42″ x 44″	13½″	165.00	1000
1546	5,000 lbs. x 1 lb.	50″ x 48″	23¾″	230.00	1700





Heavy Duty Portable Platform Scale With Drop Lever

This heavy capacity scale is especially adapted for iron dealer's use and similar heavy service. It is equipped with drop lever. When the lever is up, the platform of the scale is not in contact with the bearings. This prevents damage to the bearings when the platform receives a heavy load.

With wheels 9¾ inches in diameter, Drop Lever. Height of platform above floor, 14¼ inches.

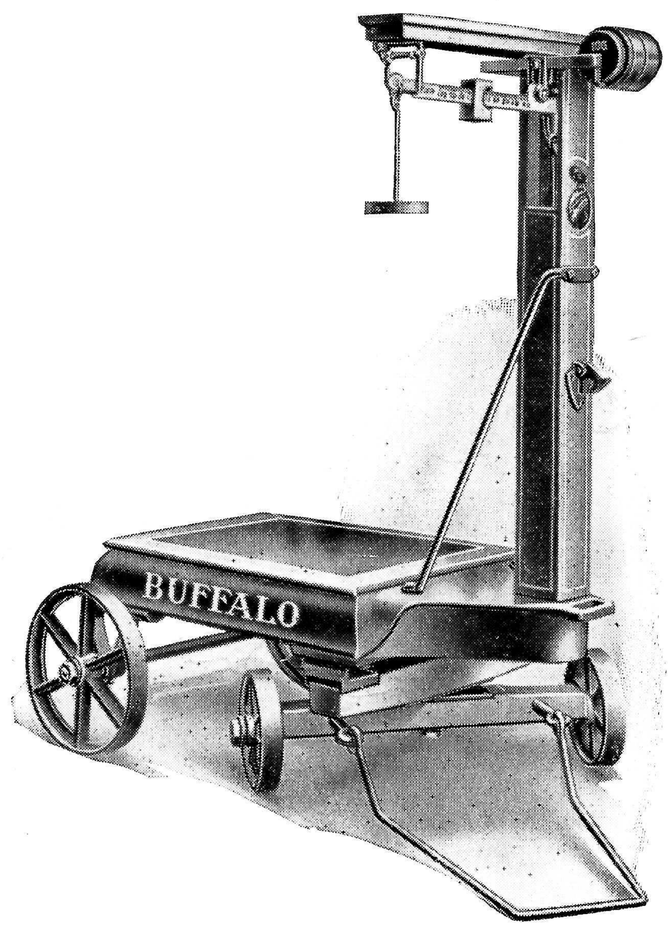
No.	Capacity	Platform	List Price	Shipping Weight
1478	4,000 lbs. x 1 lb.	31″ x 40″	$150.00	890

Portable Platform Scales With High Platforms

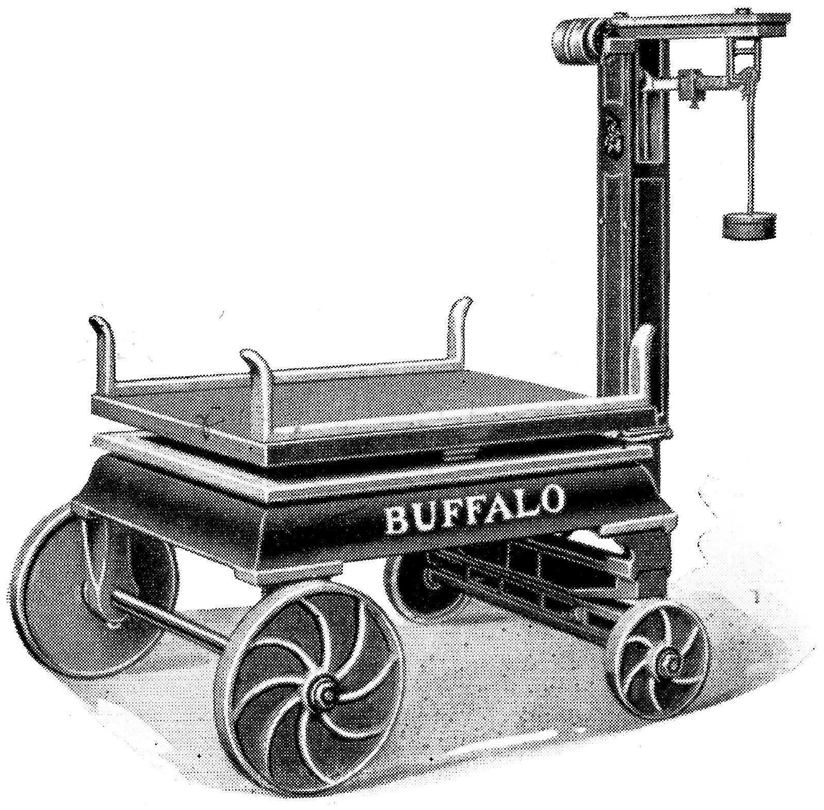
These scales are equipped with special wheels to raise the platform higher than that of the ordinary scale. They are adapted to weighing light iron bars or loosely bundled materials that have a tendency to hang over the platform and drag on the floor.

The scale is equipped with vibratory axle and small front wheels so that it can be easily turned and moved about. Double beam, drop lever or bag rack can be furnished at extra list.

No.	Capacity	Platform	Height of Platform from Floor	List Price	Shipping Weight
1412	1,000 lbs.	17″ x 26″	14⅝″	$ 65.00	320
1416	1,500 lbs.	21″ x 30″	16″	90.00	555
1418	2,000 lbs.	24″ x 33″	19¼″	110.00	660
1420	2,500 lbs.	24″ x 33″	19¼″	120.00	700



Rolling Mill Scales



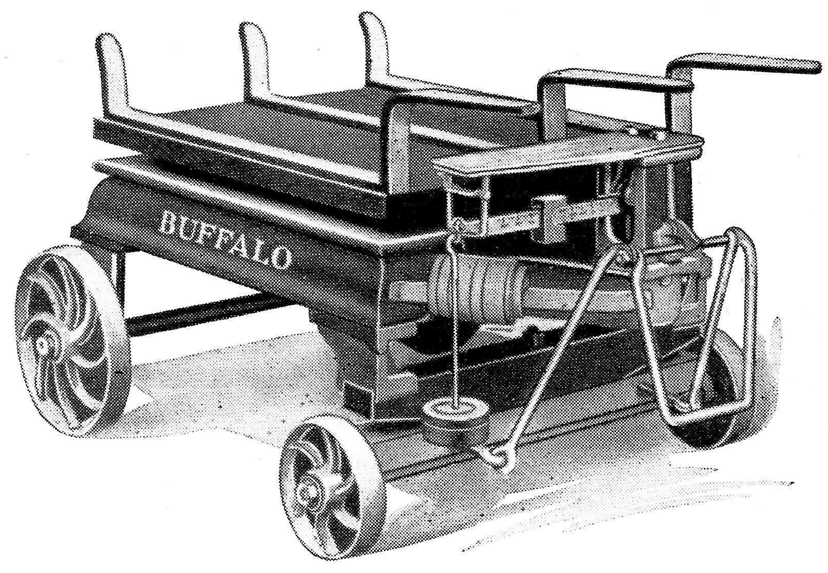
With Vibratory Axle, Rubber Spring Platform and Heavy Wheels

This scale is constructed for heavy duty and is especially adapted for use in steel mills, warehouses and foundries. No. 1494 has beam 100 x ½ lb. Nos. 1498 and 1502 have beam 200 x 1 lb.

No.	Capacity	Platform	Height of Platform	List Price	Shipping Weight
1494	2,500 lbs.	24½" x 33"	23"	$190.00	807
1498	6,000 lbs.	31" x 40"	26"	280.00	1335
1502	10,000 lbs.	31" x 40"	28"	300.00	1400

Rolling Mill Scales

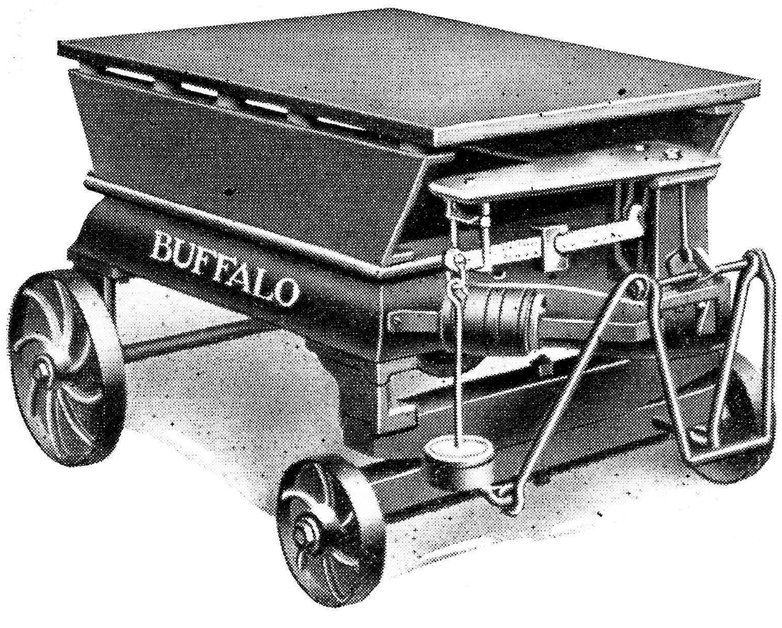
These scales are equipped with a special rack platform. A short iron pillar brings the beam below the level of the top of the rack, which facilitates weighing overhanging loads and protects the beam. No. 1506 has beam 100 x ½ lb. Nos. 1510 and 1514 have beam 200 x 1 lb.



No.	Capacity	Platform	Height of Platform	List Price	Shipping Weight
1506	2,500 lbs.	24½" x 33"	23"	$190.00	834
1510	6,000 lbs.	31" x 40"	26"	280.00	1325
1514	10,000 lbs.	31" x 40"	28"	300.00	1488

Short Pillar Monitor Mill Scales

With Raised Platform and Rubber Springs



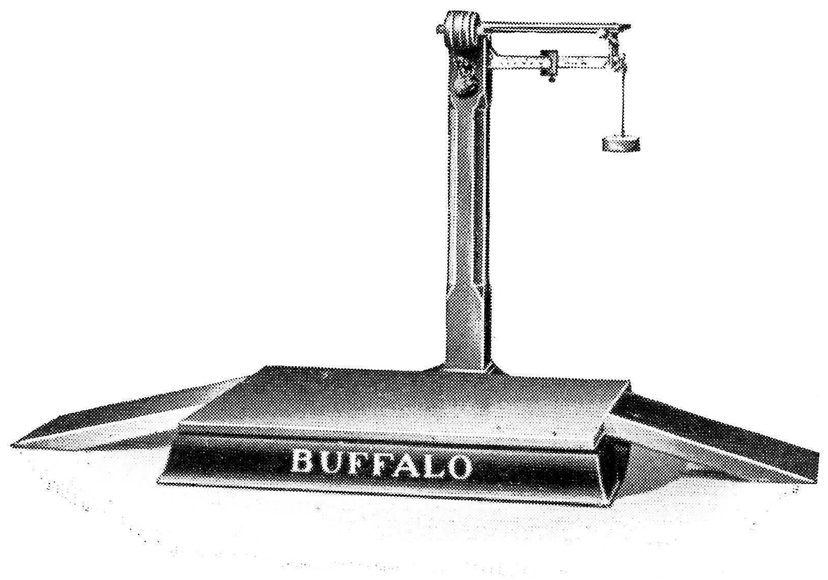
These scales are designed for weighing large plates, sheets, bars and overhanging material. They are equipped with steel plate covered raised flat platform. Rubber cushions are fitted between the steel frame work and platform. The scales have metal handles and vibratory axles for moving about and making short turns. The scale wheels are of solid iron. The platform overhangs the beam, protecting it from damage should part of the load slide off the platform. The beam is graduated 200 lbs. by 1 lb.

No.	Capacity	Platform	Height of Platform	List Price	Shipping Weight
1520	6,000 lbs.	33" x 50"	34"	$300.00	1375
1524	10,000 lbs.	33" x 50"	35"	350.00	1425

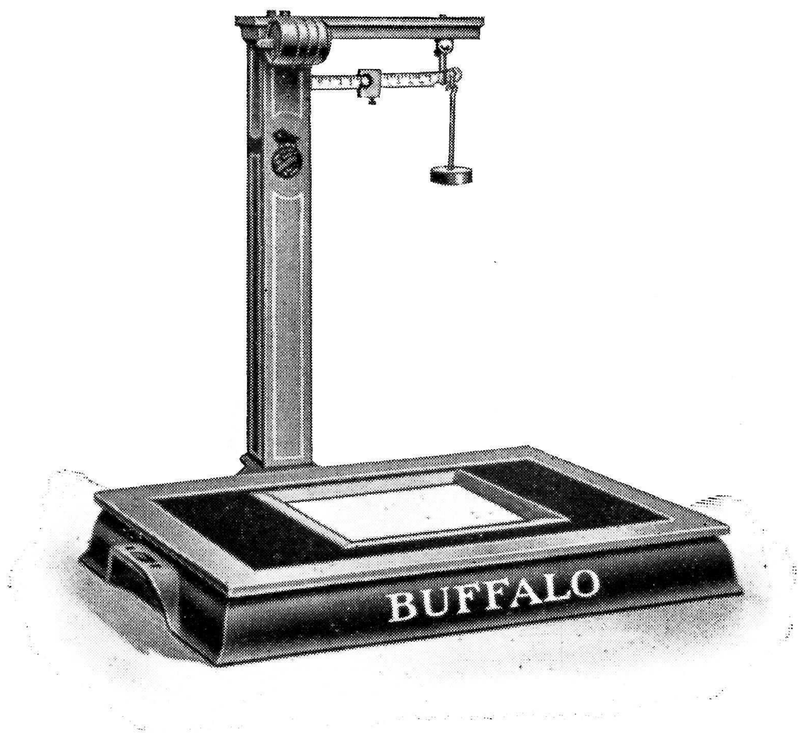
Wheelbarrow Scales

No wood is used in the construction of this scale. The scale is intended for weighing wheelbarrow loads of coal, etc. The platform is suitable in size and extra thick. A set of two wooden inclines is included with the scale. Furnished with wheels and axles at additional list of $10.00. Beam 100 lb. x ½ lb.

No.	Capacity	Platform	List Price	Shipping Weight
1451	1,000 lbs.	42″ x 30″	$120.00	700
1455	2,000 lbs.	44″ x 35″	140.00	845



Portable Type Hopper Scale



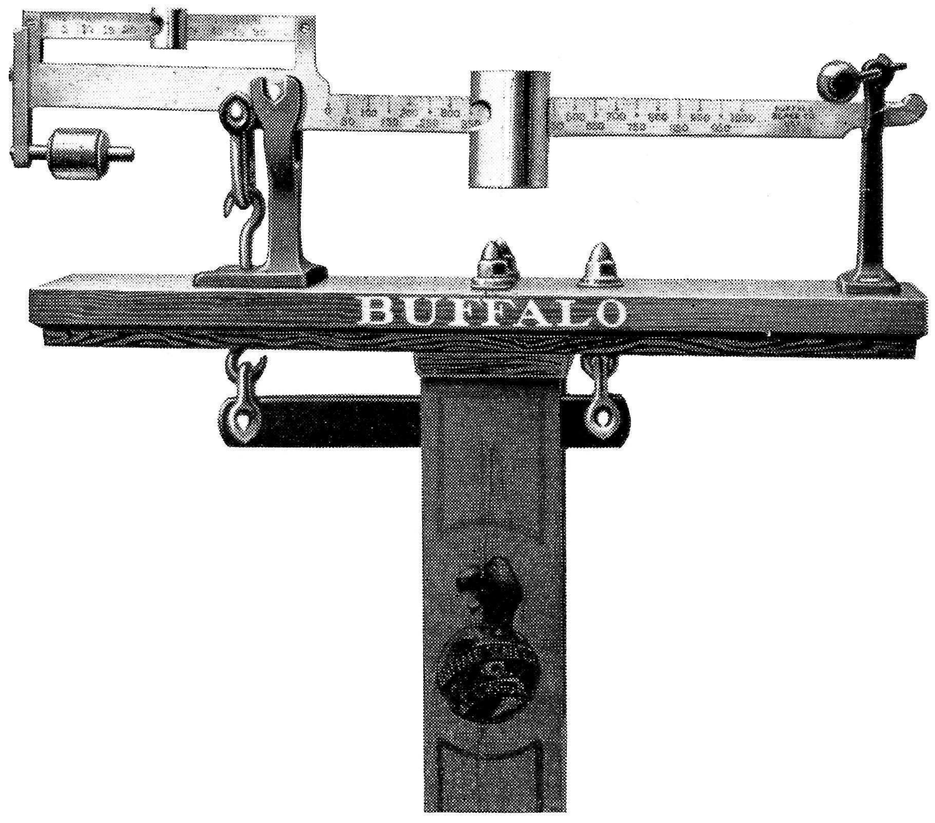
The portable pattern hopper scale will weigh up to 40 bushels of grain. Their capacity is 2400 lbs. The scale levers are built around a 15″ square opening in the platform, through which the hopper may be emptied after the grain is weighed. The scale is furnished with single wood pillar and single brass beam—graduated 100 lbs. x ½ lb. The purchaser furnishes the hopper.

No.	Capacity		Platform	Opening for Hopper	List Price	Shipping Weight
	Bushels	Pounds				
1760	40	2400 lbs.	42″ x 30″	15″ x 15″	$150.00	550

Compound Beam for Portable Scales

These beams eliminate all loose weights.

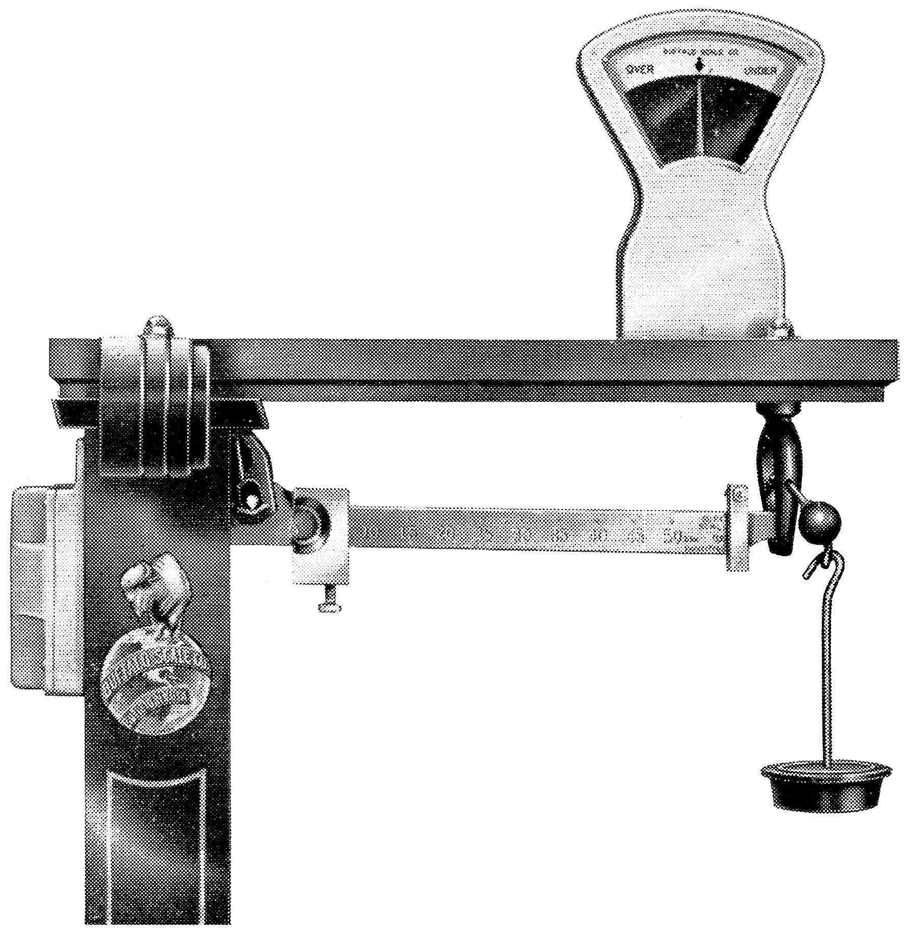
Furnished on any portable scale, $30 extra.

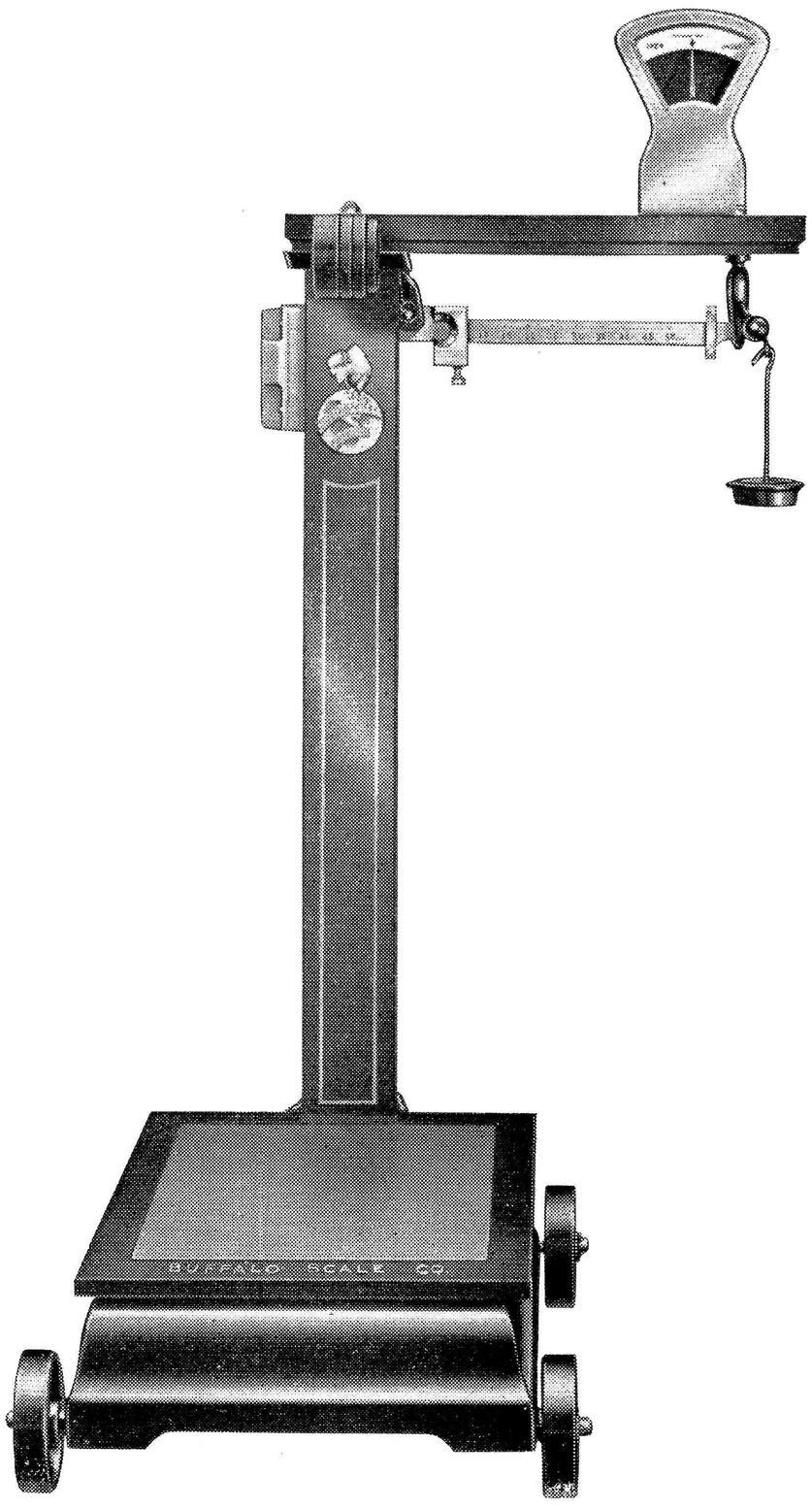


Precision Indicator For Portable Platform Scale

The BUFFALO Precision Indicator for portable platform scales is especially designed for greater speed and accuracy in weighing.

Many industrial processes require the weighing of ingredients to predetermined weights—Many products are packed in barrels, crates or sacks to a predetermined weight for marketing. In view of the fact that the weight of these products has been determined in advance, a full dial scale is not required. A visual indication as to when the correct weight is approached is, however, a great aid to speed and accuracy in packing and weighing. The Precision Indicator meets this need.





When installed on a scale, the desired weight is set off with the counterpoise weights and the poise on the beam. As the operator places material on the scale platform, or in a container on the platform, he is warned when he approaches the correct amount and can tell instantly when this amount is reached. The Indicator has a fan of approximately three pounds under correct weight and three pounds over correct weight.

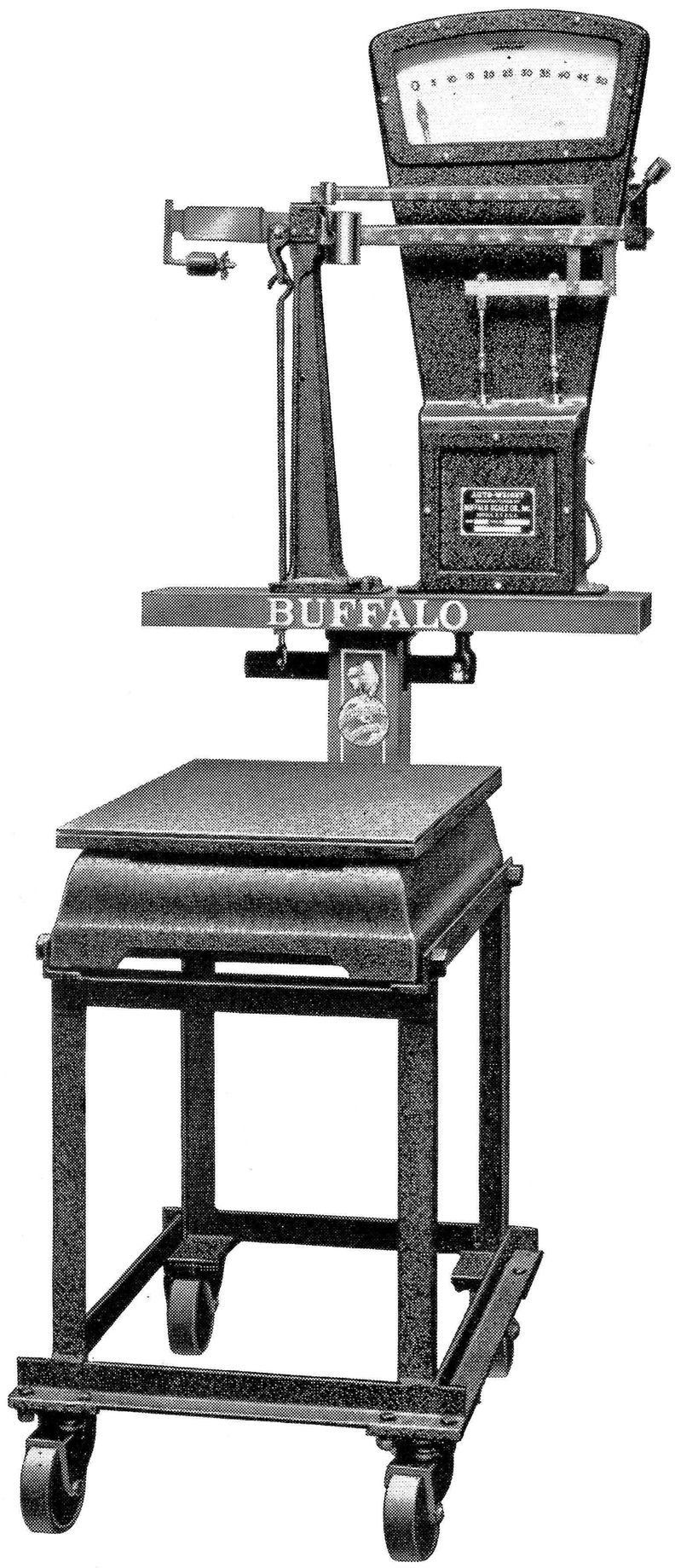
The Indicator can be furnished with new scales, or can be attached to any portable scale now in service, that has the beam located under the cap. It can also be furnished in connection with a **BUFFALO No. 797** Counter Platform Scale.

Stainless steel bearings insure long life and free action for this indicator. The adjustable dash pot on the scale pillar assures quick action. It is attractively finished in crinkle black.

Precision Indicator Without Scale

Code No.	List Price	Shipping Weight
205	$40.00	50 lbs.

Portable Scale With Auto Weight



Where articles varying within a relatively narrow range are to be weighed, a BUFFALO Portable Scale with Auto-Weight attached is an ideal answer to the weighing problem, and at a cost well below that of a full capacity dial scale. A definite amount of weight can be set off on the full capacity beam of the scale and the balance (which would cover the variation in weight between articles) read directly on the Auto-Weight chart. For example: a certain lot of articles range between 200 and 250 pounds. The chart of the Auto-Weight is graduated 0 to 50 pounds. The poise on the beam is then set at 200 and the amount over 200 that each article weighs is read on the Auto-Weight.

The scale may be built with regulation height pillar or with short pillar, such as the bench model illustrated in the cut. The steel stand for moving this scale about can be furnished when required.

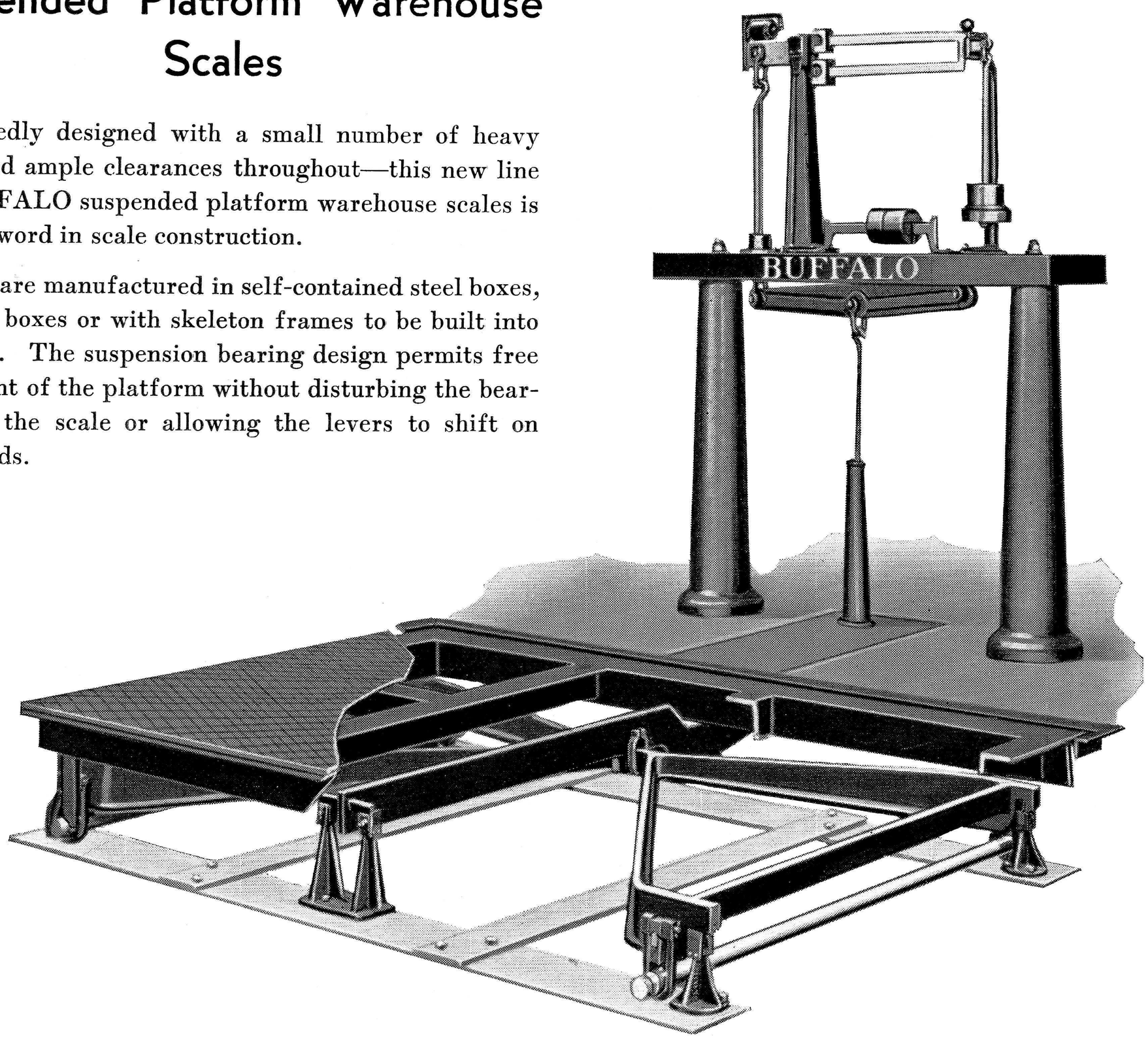
Charts can be graduated 100 pounds by one pound, 50 pounds by ½ pound or 25 pounds by ¼ pound.

These scales have found a wide application in steel mills for checking plates—Scale, stand and Auto-Weight are all attractively finished in crinkle black.

Suspended Platform Warehouse Scales

Ruggedly designed with a small number of heavy parts and ample clearances throughout—this new line of BUFFALO suspended platform warehouse scales is the last word in scale construction.

They are manufactured in self-contained steel boxes, in wood boxes or with skeleton frames to be built into concrete. The suspension bearing design permits free movement of the platform without disturbing the bearings of the scale or allowing the levers to shift on the stands.



Warehouse Beam Scales with Wooden Boxes

No.	Capacity	Platform Size	Beam		List Price	Shipping Weight
			Upper Bar	Lower Bar		
1901	2,500 lbs.	46″ x 38″	100 x ½ lbs.	200 x 1 lbs.	$235.00	1015
1903	5,000 lbs.	48″ x 48″	100 x ½ lbs.	200 x 1 lbs.	270.00	1439
1905	6,000 lbs.	60″ x 48″	100 x ½ lbs.	200 x 1 lbs.	295.00	1517
1906	6,000 lbs.	72″ x 48″	100 x ½ lbs.	200 x 1 lbs.	320.00	1650
1907	6,000 lbs.	76″ x 54″	100 x ½ lbs.	200 x 1 lbs.	395.00	1900

Warehouse Beam Scales in Self-Contained Steel Boxes

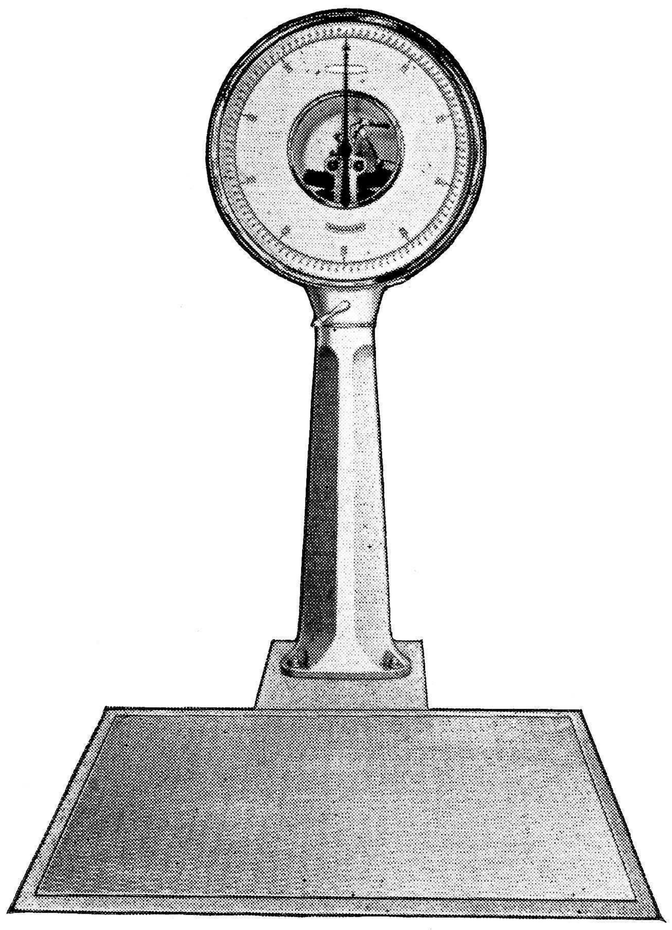
No.	Capacity	Platform Size	Beam		List Price	Shipping Weight
			Upper Bar	Lower Bar		
1911	2,500 lbs.	46″ x 38″	100 x ½ lbs.	200 x 1 lbs.	$275.00	1429
1913	5,000 lbs.	48″ x 48″	100 x ½ lbs.	200 x 1 lbs.	340.00	1879
1915	6,000 lbs.	60″ x 48″	100 x ½ lbs.	200 x 1 lbs.	355.00	2027
1916	6,000 lbs.	72″ x 48″	100 x ½ lbs.	200 x 1 lbs.	405.00	2430
1917	6,000 lbs.	76″ x 54″	100 x ½ lbs.	200 x 1 lbs.	485.00	2735

Warehouse Beam Scales with Skeleton Steel Frames

No.	Capacity	Platform Size	Beam		List Price	Shipping Weight
			Upper Bar	Lower Bar		
1921	2,500 lbs.	46″ x 38″	100 x ½ lbs.	200 x 1 lbs.	$235.00	960
1923	5,000 lbs.	48″ x 48″	100 x ½ lbs.	200 x 1 lbs.	270.00	1087
1925	6,000 lbs.	60″ x 48″	100 x ½ lbs.	200 x 1 lbs.	295.00	1483
1926	6,000 lbs.	72″ x 48″	100 x ½ lbs.	200 x 1 lbs.	320.00	1644
1927	6,000 lbs.	76″ x 54″	100 x ½ lbs.	200 x 1 lbs.	395.00	1852

THE WORLD'S STANDARD FOR THREE QUARTERS OF A CENTURY

Warehouse Scales With Dials



(Without Tare and Capacity Beams)

Self Contained Steel Box Cat. No.	Skeleton Frame Steel Box Cat. No.	Platform Size Inches	Dial Size Inches	Dial Graduation Pounds	Gross Capacity Pounds
4011	4041	46 x 38	30	1,000 x 1	1,000
4013	4043	48 x 48	30	1,000 x 1	1,000
4015	4045	60 x 48	30	1,000 x 1	1,000
4016	4046	72 x 48	30	1,000 x 1	1,000
4018	4048	76 x 54	30	1,000 x 1	1,000
4021	4051	46 x 38	30	2,000 x 2	2,000
4023	4053	48 x 48	30	2,000 x 2	2,000
4025	4055	60 x 48	30	2,000 x 2	2,000
4026	4056	72 x 48	30	2,000 x 2	2,000
4028	4058	76 x 54	30	2,000 x 2	2,000
4031	4061	46 x 38	30		3,000 to 5,500
4033	4063	48 x 48	30	To Suit	3,000 to 5,500
4035	4065	60 x 48	30	specifications	3,000 to 5,500
4036	4066	72 x 48	30		3,000 to 5,500
4038	4068	76 x 54	30		3,000 to 5,500

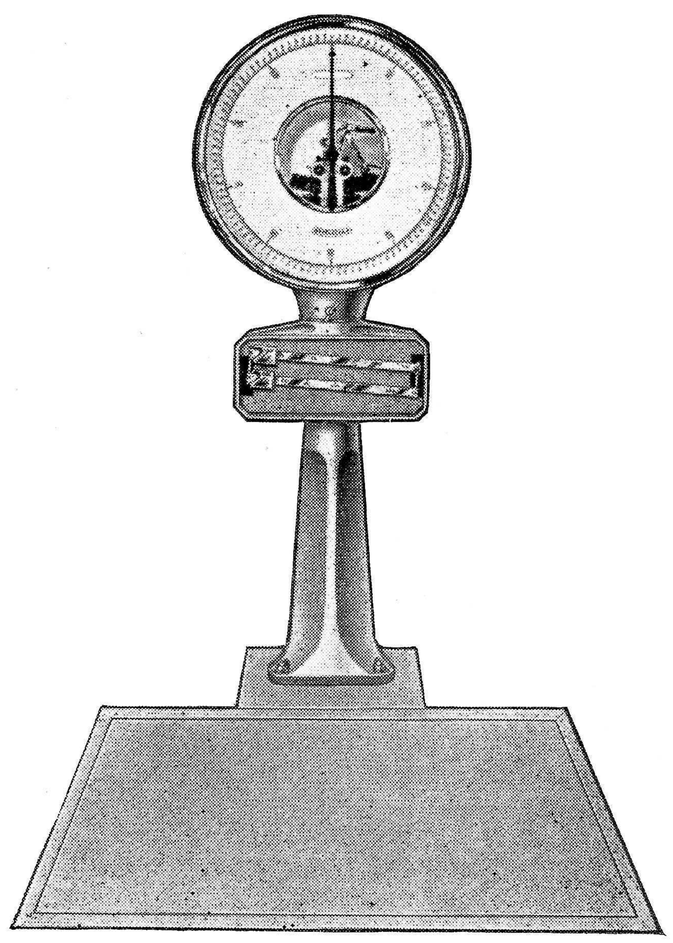
Scales can be furnished in self-contained wood boxes where so desired.

Warehouse Scales With Dials

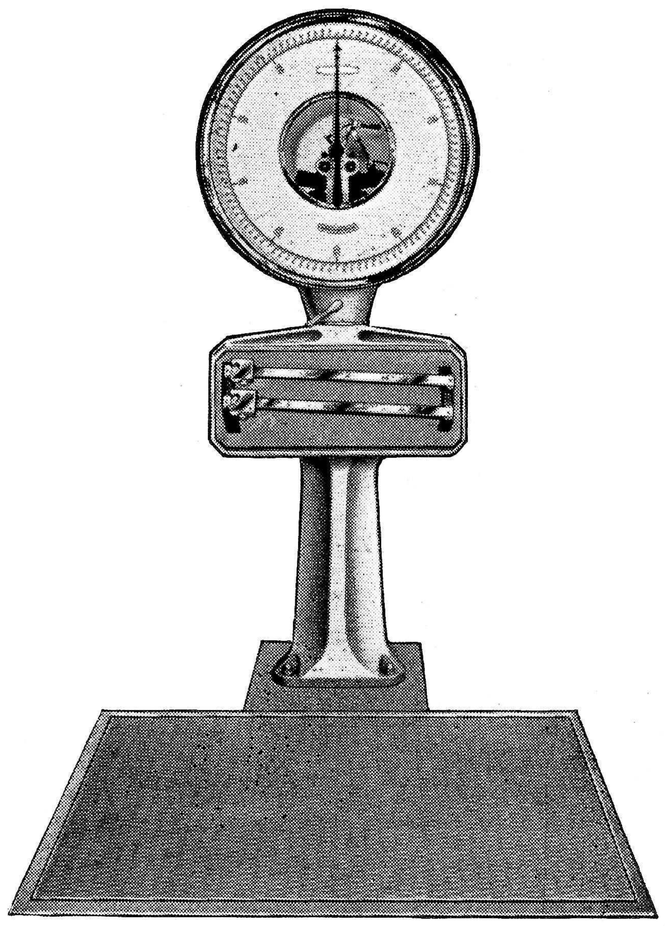
(Tare and Capacity Beams Type B)

Self Contained Steel Box Cat. No.	Skeleton Frame Steel Box Cat. No.	Platform Size Inches	Dial Size Inches	Dial Graduation Pounds	Tare Beam Pounds	Capacity Beam Pounds	Gross Capacity Pounds
4111	4141	46 x 38	30	1,000 x 1	200 x 1	500 x 100	1,700
4113	4143	48 x 48	30	1,000 x 1	200 x 1	500 x 100	1,700
4115	4145	60 x 48	30	1,000 x 1	200 x 1	500 x 100	1,700
4116	4146	72 x 48	30	1,000 x 1	200 x 1	500 x 100	1,700
4118	4148	76 x 54	30	1,000 x 1	200 x 1	500 x 100	1,700
4121	4151	46 x 38	30	2,000 x 2	400 x 2	600 x 200	3,000
4123	4153	48 x 48	30	2,000 x 2	400 x 2	600 x 200	3,000
4125	4155	60 x 48	30	2,000 x 2	400 x 2	600 x 200	3,000
4126	4156	72 x 48	30	2,000 x 2	400 x 2	600 x 200	3,000
4128	4158	76 x 54	30	2,000 x 2	400 x 2	600 x 200	3,000
4131	4161	46 x 38	30				3,000-5,500
4133	4163	48 x 48	30	Any combination of dial capacity			3,000-5,500
4135	4165	60 x 48	30	and graduations, tare and capac-			3,000-5,500
4136	4166	72 x 48	30	ity beams can be furnished pro-			3,000-5,500
4138	4168	76 x 54	30	vided neither tare nor capacity			3,000-5,500
				beam exceeds 50% of dial capac-			
				ity.			

Scales can be furnished in self-contained wood boxes where so desired.



Warehouse Scales With Dials



(Tare and Capacity Beams, Type A)

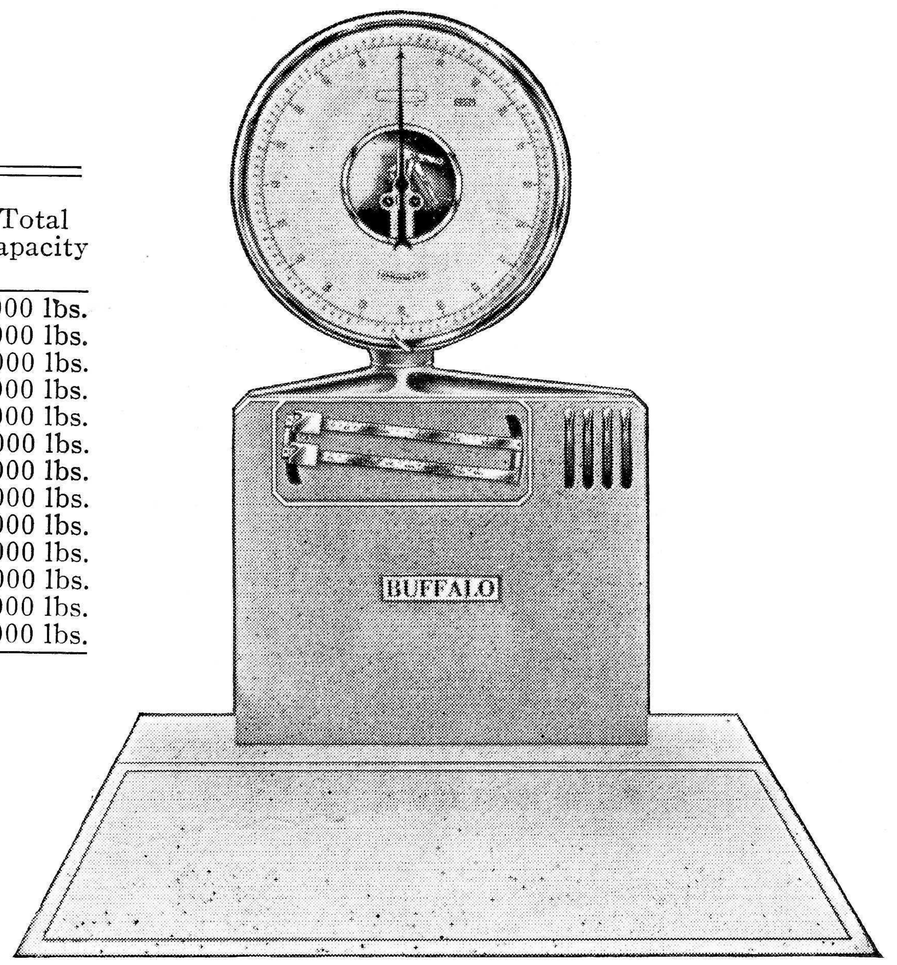
Self Contained Steel Box Cat. No.	Skeleton Frame Steel Box Cat. No.	Platform Size Inches	Dial Size Inches	Dial Graduation Pounds	Tare Beam Pounds	Capacity Beam Pounds	Gross Capacity Pounds
4211	4241	46 x 38	30				1,000 to 3,000
4213	4243	48 x 48	30				1,000 to 3,000
4215	4245	60 x 48	30				1,000 to 3,000
4216	4246	72 x 48	30	Any combination of dial capacity and graduations, tare and capacity beams can be furnished provided neither tare nor capacity beam exceeds 100% of dial capacity.			1,000 to 3,000
4218	4248	76 x 54	30				1,000 to 3,000
4231	4261	46 x 38	30				3,000 to 5,500
4233	4263	48 x 48	30				3,000 to 5,500
4235	4265	60 x 48	30				3,000 to 5,500
4236	4266	72 x 48	30				3,000 to 5,500
4238	4268	76 x 54	30				3,000 to 5,500

Scales can be furnished with self-contained wood boxes where so desired.

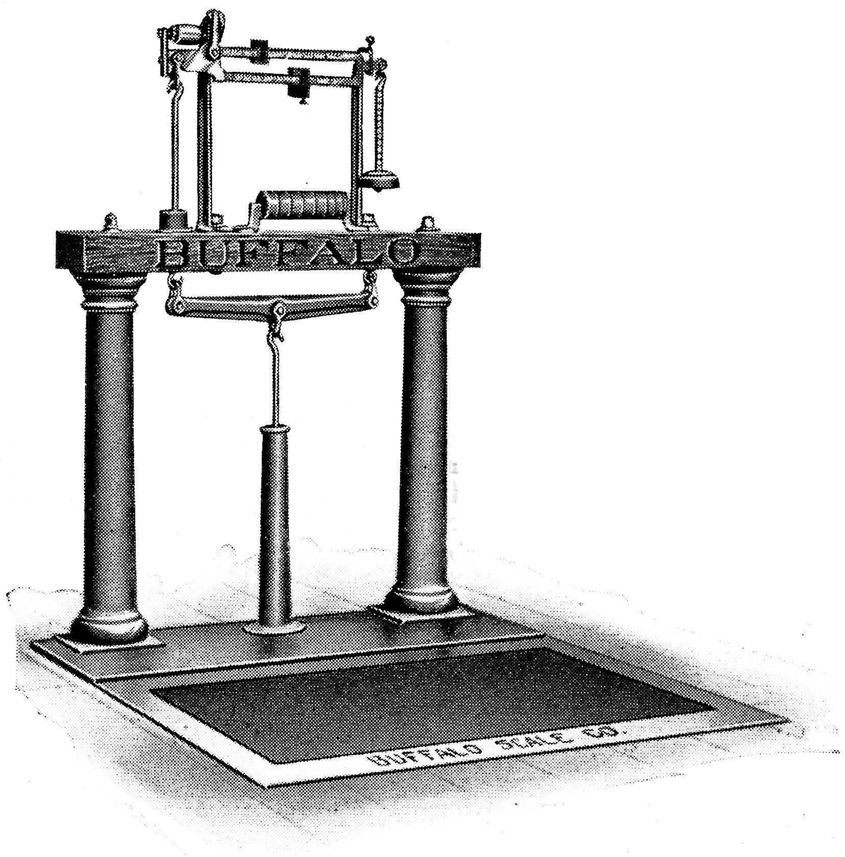
Warehouse Scales With Full Capacity Cabinet Dials

Self Contained Steel Box Cat. No.	Skeleton Frame Steel Box Cat. No.	Platform	No. Drop Wghts.	Chart Capacity	Tare Beam Capacity		Total Capacity
					Main Bar	Unit Bar	
4321	4351	46″ x 38″	1	2000 x 1 lbs.	800x200 lbs.	200x1 lbs.	3,000 lbs.
4323	4353	48″ x 48″	1	2000 x 1 lbs.	800x200 lbs.	200x1 lbs.	3,000 lbs.
4325	4355	60″ x 48″	1	2000 x 1 lbs.	800x200 lbs.	200x1 lbs.	3,000 lbs.
4326	4356	72″ x 48″	1	2000 x 1 lbs.	800x200 lbs.	200x1 lbs.	3,000 lbs.
4328	4358	76″ x 54″	1	2000 x 1 lbs.	800x200 lbs.	200x1 lbs.	3,000 lbs.
4333	4363	48″ x 48″	1	4000 x 2 lbs.	1600x400 lbs.	400x2 lbs.	6,000 lbs.
4335	4365	60″ x 48″	1	4000 x 2 lbs.	1600x400 lbs.	400x2 lbs.	6,000 lbs.
4336	4366	72″ x 48″	1	4000 x 2 lbs.	1600x400 lbs.	400x2 lbs.	6,000 lbs.
4338	4368	76″ x 54″	1	4000 x 2 lbs.	1600x400 lbs.	400x2 lbs.	6,000 lbs.
4373	4383	48″ x 48″	4	5000 x 1 lbs.	800x200 lbs.	200x1 lbs.	6,000 lbs.
4375	4385	60″ x 48″	4	5000 x 1 lbs.	800x200 lbs.	200x1 lbs.	6,000 lbs.
4376	4386	72″ x 48″	4	5000 x 1 lbs.	800x200 lbs.	200x1 lbs.	6,000 lbs.
4378	4388	76″ x 54″	4	5000 x 1 lbs.	800x200 lbs.	200x1 lbs.	6,000 lbs.

Scales can be furnished with self-contained wood boxes where so desired.



Self Contained Suspended Lever Warehouse Scales



BUFFALO suspended lever warehouse scales are designed to give excellent service in ordinary warehouse use. They are equipped with self-aligning bearings to keep the platform in place. The lever system is contained in a sturdy wooden box. Metal floor strips are provided for the warehouse floor around the platform.

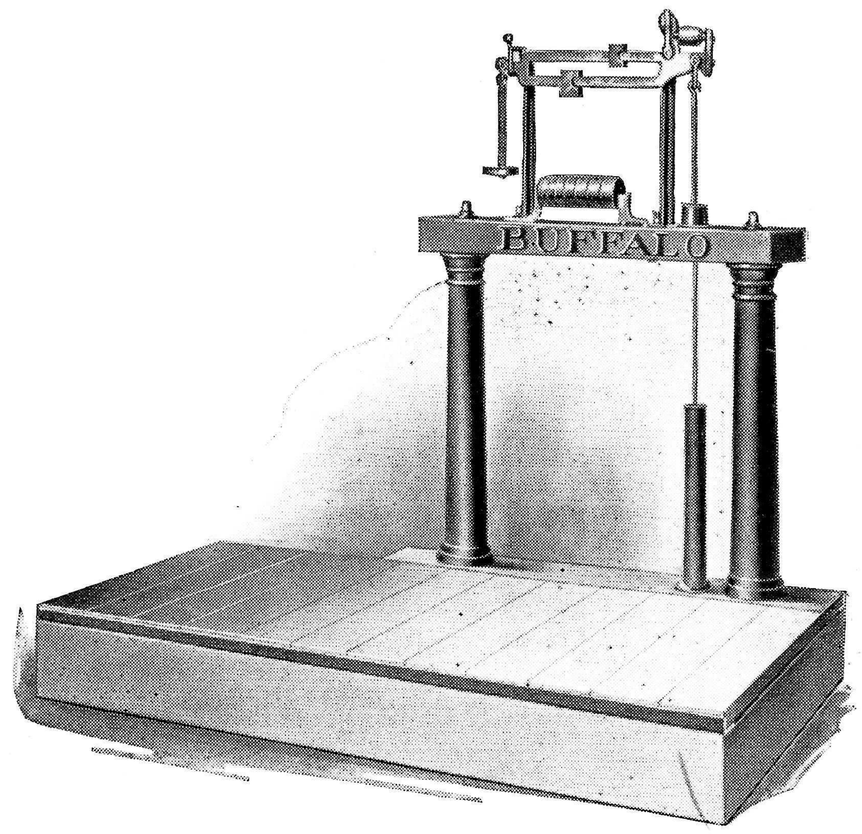
With two iron pillars, double beam and graduated counterpoise. The beams are marked upper bar 100 lbs. by ½ lb., lower bar 200 lbs. by 1 lb.

Compound Beam, $30.00 extra.

No.	Capacity	Platform	Platform to Pillar	List Price	Shipping Weight
1735	2,500 lbs.	46″ x 38″	11½″	$190.00	900
1753	3,500 lbs.	48″ x 48″	20″	220.00	1439
1755	5,000 lbs.	60″ x 48″	20″	245.00	1517

Large Platform Warehouse Scale

These scales are designed with especially large platforms to accommodate bulky commodities—such as bagged coffee, dried fruit and similar materials. A large number of bags can be weighed at once. It is also a good scale for general use. It is equipped with self-aligning bearings and the platform has a steel frame. This scale is not recommended for heavy concentrated loads or loads carried on two-wheel trucks or power driven industrial trucks.



No.	Capacity	Platform	List Price	Shipping Weight
1743	3,500 x ½ lb.	76″ x 52″	$290.00	1700

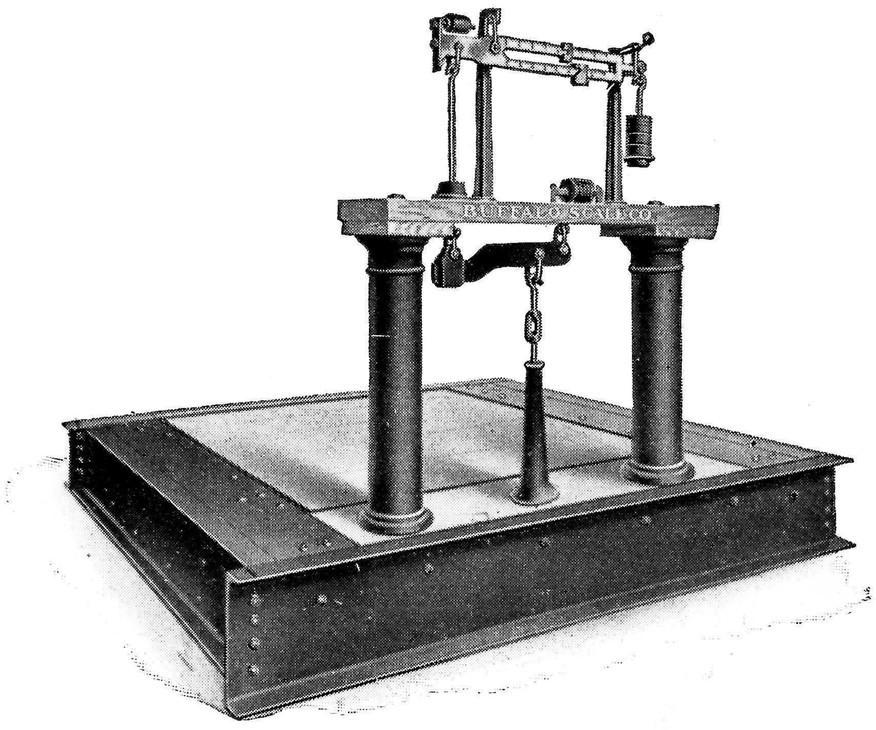
Heavy Duty Suspended Platform Warehouse Scales

This Scale is self-contained and is complete with planking as illustrated.

Construction of metal except for shelf and platform and is equipped with suspension bearings.

Because of the design this scale has a sustained accuracy which is not equaled by any other type of warehouse scale.

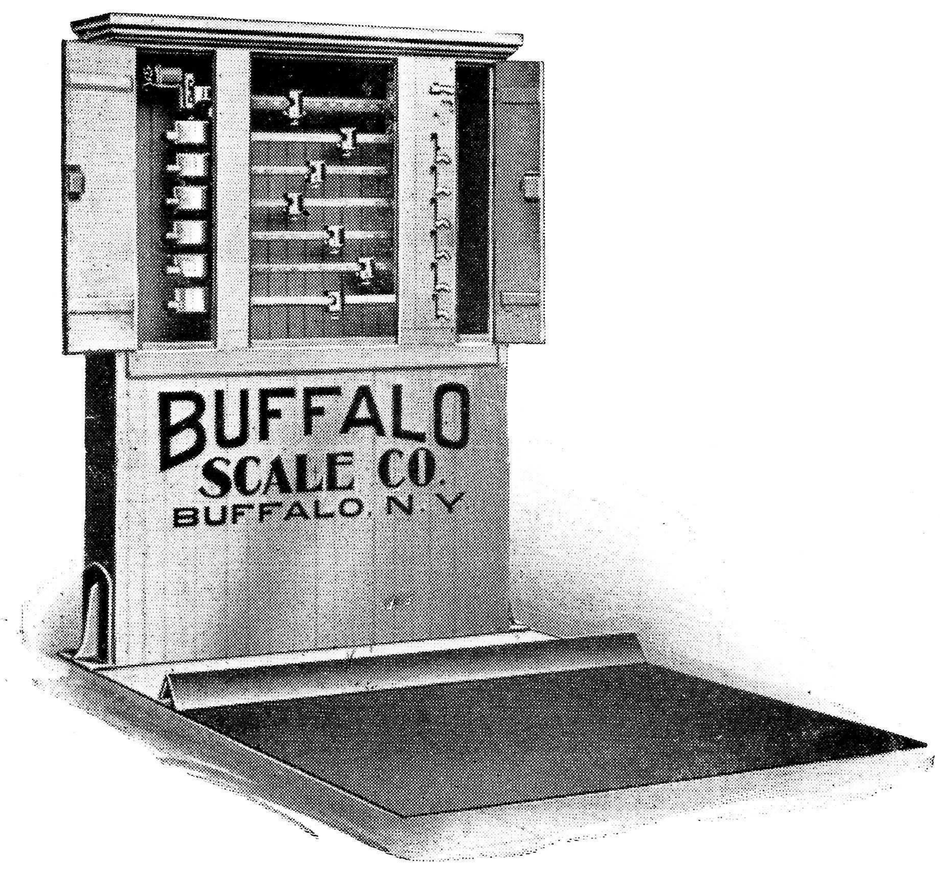
Double beam, each bar, 500 x 2 lbs., except 1428—lower, 200 x 1 lb.; upper 100 x ½ lb.



No.	Capacity	Platform	List Price	Shipping Weight
1428	2,500 lbs.	54″ x 36″	$400.00	1497
1426	6,000 lbs.	48″ x 48″	450.00	2056
1425	8,000 lbs.	60″ x 48″	550.00	1822
1427	10,000 lbs	72″ x 60″	650.00	2056

Special sizes furnished on application.

Furnace Charging Scales

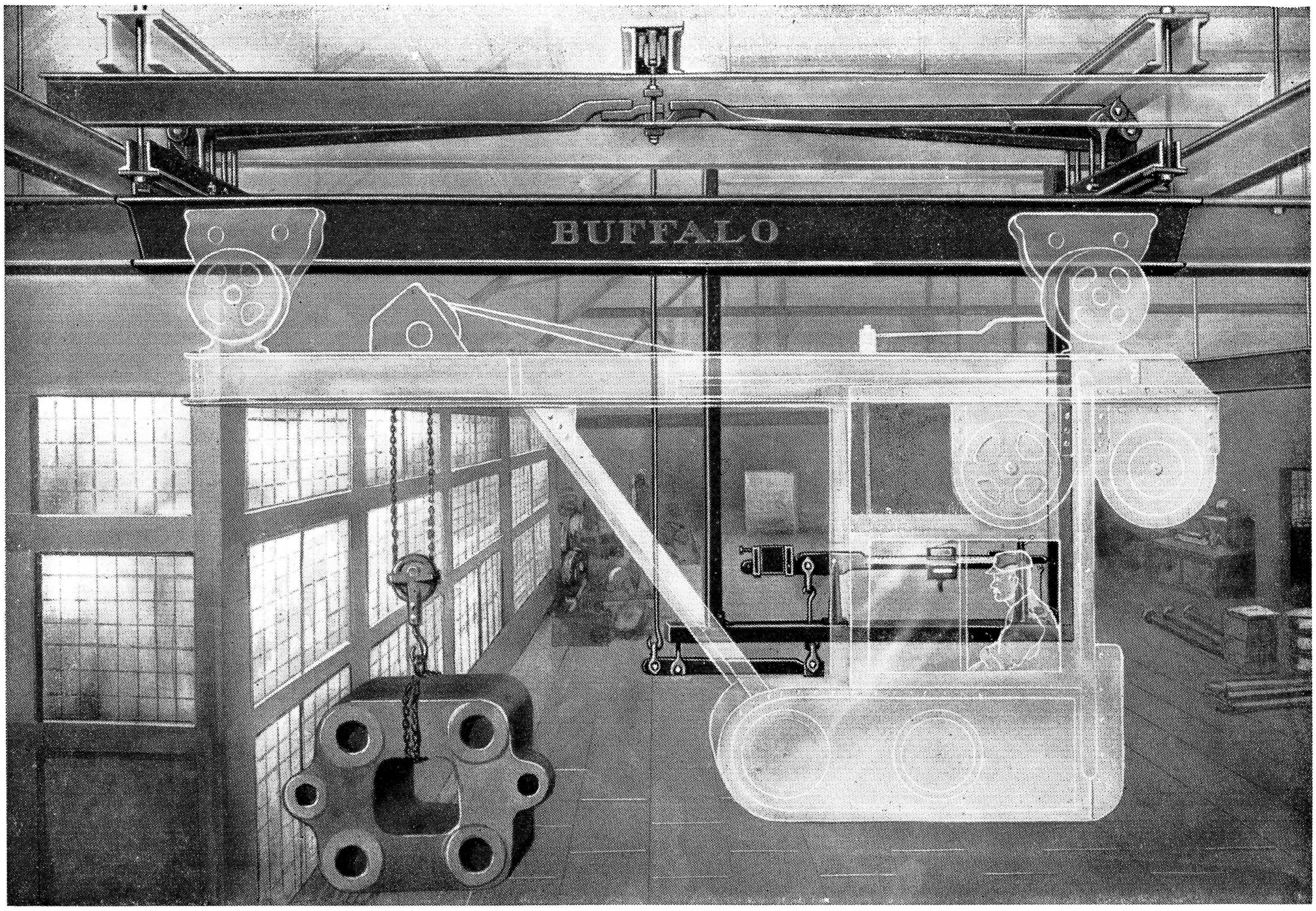


The Furnace Charging Scale, as its name implies, is designed especially for weighing the various materials used in making a furnace charge. It is a self-contained scale of the dormant type with the lever parts contained in a metal box. Six or eight beams are regularly furnished. A different beam is used for each material and the poise set and locked on each beam for the amounts required. The beam box may then be locked so the make up of the charge may be kept secret and also that no change may be made without order of the foreman.

Levers are provided by means of which any beam desired may be used and the balance of the beam is shown by an indicator.

No.	No. of Beams	Capacity of Each Beam	Platform	List Price	Shipping Weight
2005	6	1500 x 5 lbs.	50″ x 48″	$500.00	2239
2009	8	1500 x 5 lbs.	50″ x 48″	555.00	2789

Monorail Scales



A great economy is effected by weighing the loads while being conveyed without having to place them on a scale platform. To accomplish this, a section of Monorail Track is suspended from an overhead scale of ingenious design. By stopping the load on the scale rail, the weight may be quickly taken and time and unnecessary handling saved.

An extension lever to place the beam any distance from the center of scale up to and including six (6) feet for scales up to and including 3,000 lbs. capacity or twelve (12) feet on scales of more than 3,000 lbs. capacity is furnished at the regular list. Longer extensions will be furnished at an additional charge.

All sizes over the 4,000 lbs. size are equipped with full capacity compound beam and tare bar and fixtures for beam box; 4,000 lbs. size and under have double brass beams and weights, shelf and wall brackets.

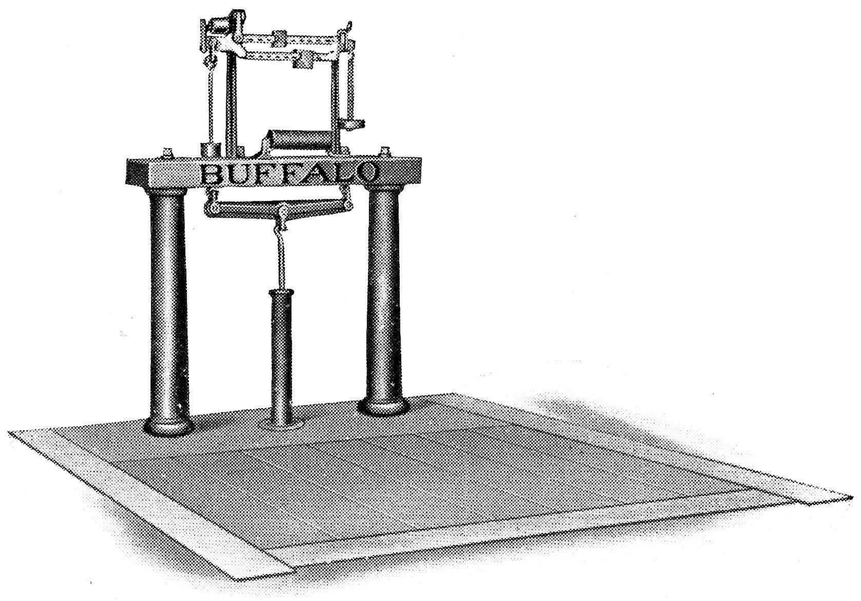
Regular equipment includes check rods and bolts, but not the track or hangers.

When writing for prices or further information it is desirable to send a sketch showing size of Monorail Track and the construction used to support it at the point where the scale is to be installed.

Any size and capacity can be furnished, but those listed below are our regular sizes.

No.	Maximum Beam Capacity	Maximum Track Length	List Price
1954	1,000 lbs.	4′-0″	$120.00
1955	1,000 lbs.	6′-0″	145.00
1956	1,000 lbs.	8′-0″	170.00
1957	1,000 lbs.	10′-0″	195.00
1958	2,000 lbs.	4′-0″	132.00
1959	2,000 lbs.	6′-0″	157.00
1960	2,000 lbs.	8′-0″	182.00
1961	2,000 lbs.	10′-0″	207.00
1962	3,000 lbs.	4′-0″	190.00
1963	3,000 lbs.	6′-0″	215.00
1964	3,000 lbs.	8′-0″	240.00
1965	3,000 lbs.	10′-0″	265.00
1966	4,000 lbs.	4′-0″	275.00
1967	4,000 lbs.	6′-0″	300.00
1968	4,000 lbs.	8′-0″	325.00
1969	4,000 lbs.	10′-0″	350.00
1571	9,000 lbs.	6′-0″	325.00
1972	9,000 lbs.	8′-0″	350.00
1973	9,000 lbs.	10′-0″	375.00
1974	12,500 lbs.	6′-0″	400.00
1975	12,500 lbs.	8′-0″	430.00
1976	12,500 lbs.	10′-0″	460.00
1576	30,000 lbs.	12′-0″	600.00
1577	30,000 lbs.	18′-0″	625.00
1581	45,000 lbs.	18′-0″	850.00
1583	60,000 lbs.	18′-0″	950.00

Industrial Platform Scales



No.	Capacity	Platform	Distance from Edge of Plat. to Beam Rod	List Price	Shipping Weight
2282	4 Tons	6′ x 4′	1′ 6⅝″	$235.00	1100
2288	4 Tons	6′ x 5′	1′ 6″	250.00	1145
2294	6 Tons	6′ x 5′	1′ 6″	280.00	1063
2276	6 Tons	8′ x 6′	1′ 10⅜″	290.00	1585
2296	6 Tons	9′ x 7′	2′ 5½″	300.00	1864
2293	10 Tons	6′ x 5′	1′ 6 1/16″	330.00	1647
2295	10 Tons	8′ x 6′	1′ 10⅜″	340.00	1864

These industrial platform scales are widely used in railroad freight rooms, express offices and industrial plants of all kinds. The platform can be built of timber or structural steel and plans for either type of construction will be furnished upon request. Platform material is supplied by the purchaser. Short iron pillars and hard wood shelf are furnished with the scale. The double beam is of brass and the counterpoise is graduated to show the total amount of weights on it at any time. Compound beam can be furnished at an extra cost of $30.00.

Suspension bearings also furnished at an extra list price.

Mine and Transportation Scales

These Scales are designed for weighing small cars on coal tipple or heavy machinery, and bulky articles in factories.

Purchasers furnish foundation, lumber, or steel framing, including beam box.

Suspension bearings can be furnished at an extra price.

Beam box will be furnished at extra list of $40.00 for Double and Compound Beams.

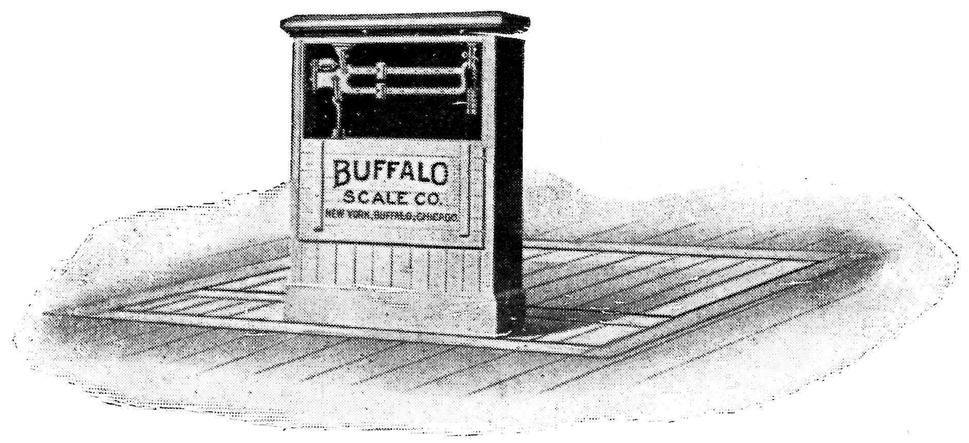
Short iron pillars and shelf will be furnished at extra list of $50.00.

Compound beam furnished at extra list of $30.00.

NOTE:—Maximum distance from edge of platform to beam rod obtainable by running fifth lever straight out.

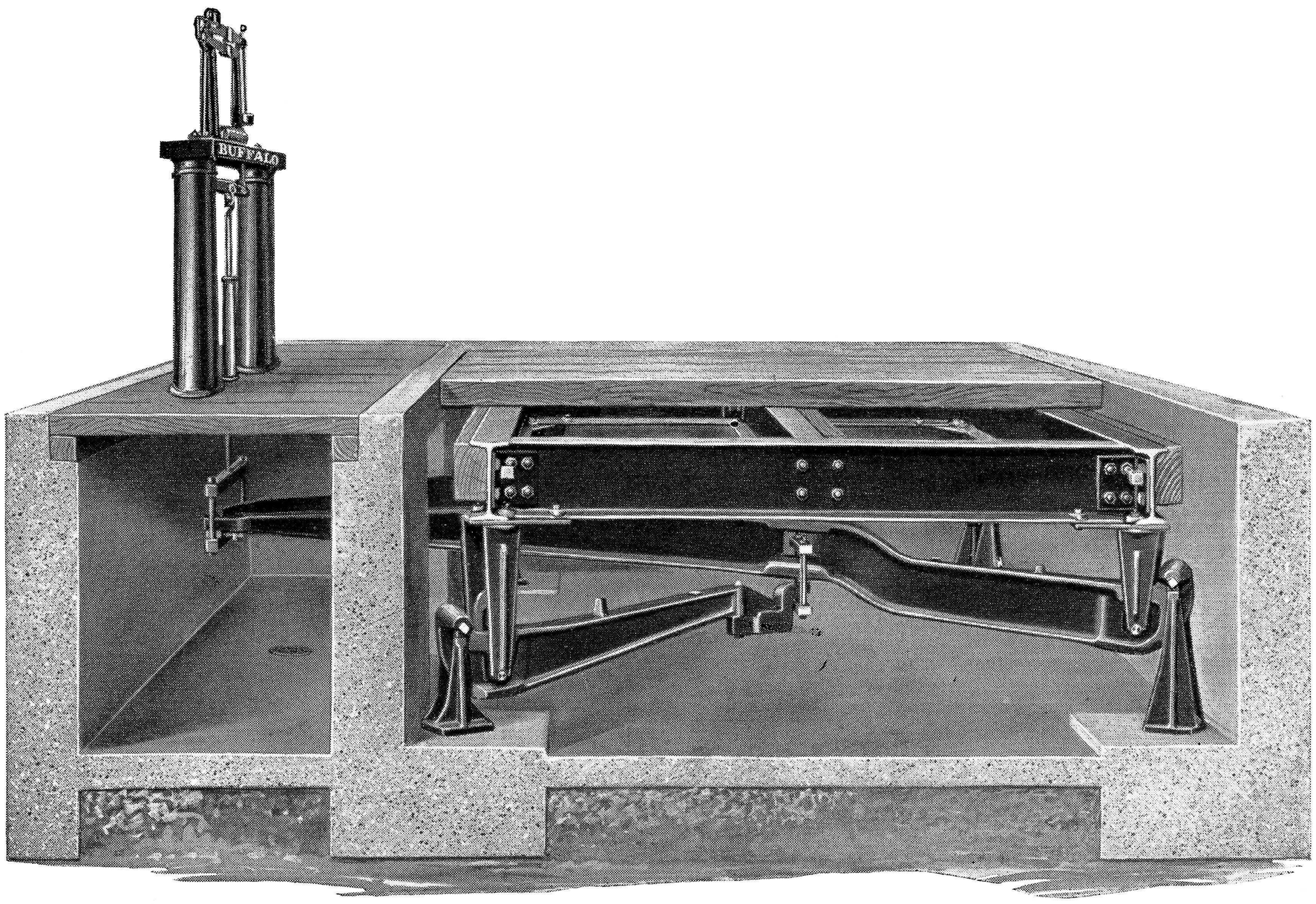
Double Beam Scale add 1 ft. 4 inches.

Comp. or Rec. Beam Scales add 3 ft. 0 inches.



No.	Capacity	Platform	Distance from Edge of Plat. to Beam Rod	List Price	Shipping Weight
2356	4 Tons	6′ x 4′	1′ 6⅝″	$185.00	690
2358	4 Tons	6′ x 5′	1′ 6″	200.00	568
2368	6 Tons	6′ x 5′	1′ 6″	230.00	1000
2364	6 Tons	8′ x 6′	1′ 10⅜″	240.00	803
2370	6 Tons	9′ x 7′	2′ 5½″	250.00	875
2376	10 Tons	6′ x 5′	1′ 6 1/16″	280.00	1125
2380	10 Tons	8′ x 6′	1′ 10⅜″	290.00	1642

Suspended Platform Industrial Scales



BUFFALO suspended platform industrial scales are of the latest and best design where a sturdy scale with heavy capacity and a large platform are required. The BUFFALO single link suspension bearing is the simplest and most efficient ever devised. First used on Railroad Track Scales and Motor Truck Scales, the same design is now incorporated in our industrial line. These scales are designed in strict accordance with the specifications of the American Railway Engineering Association.

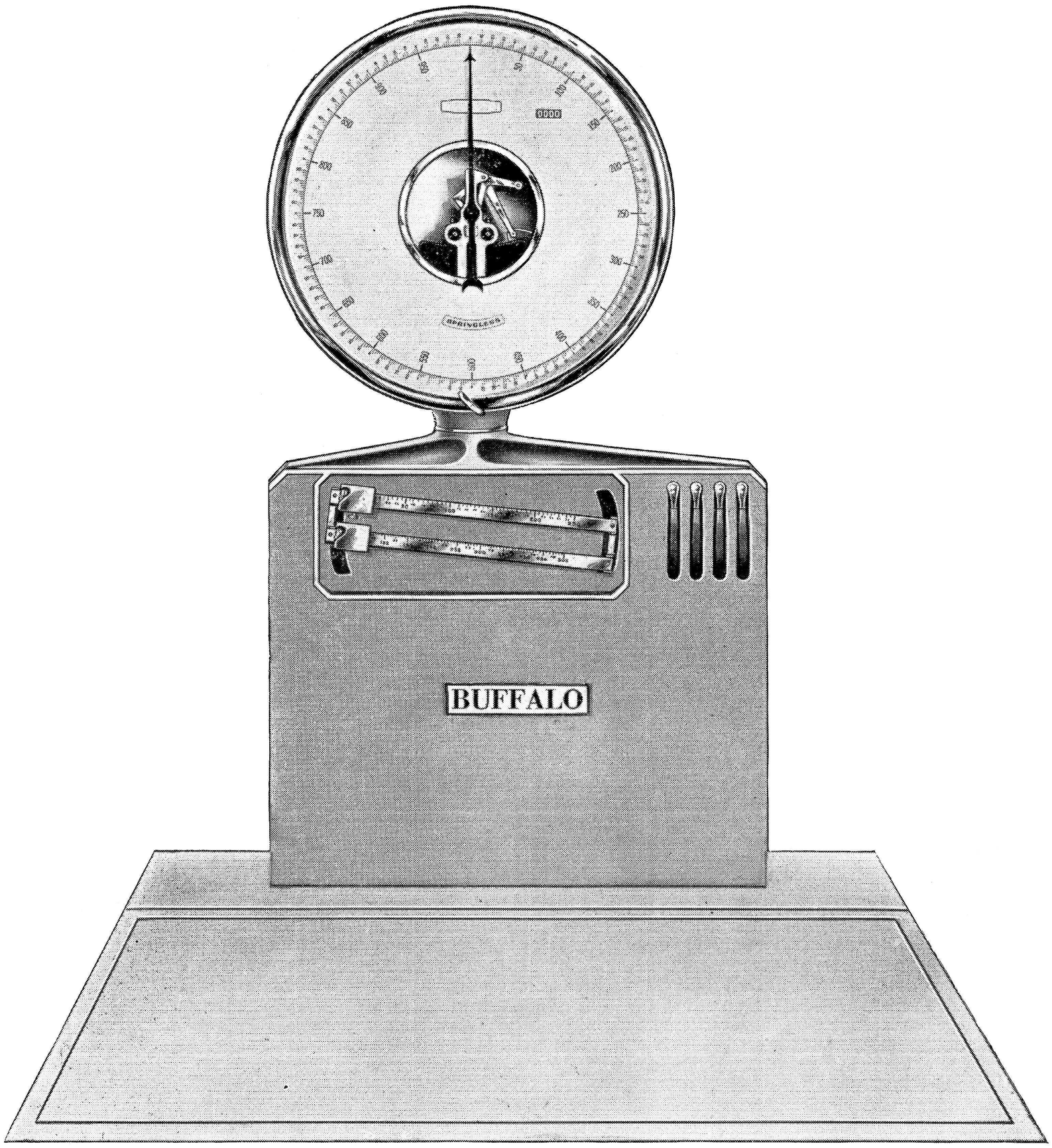
Many of these scales have been installed in U. S. Government Post Offices and are giving excellent service.

Double brass beams and poises are regularly furnished. Full compound beam or a recording beam will be supplied at an extra price.

Short iron pillars and hard wood shelf are furnished with the scale.

Cat. No.	Capacity	Platform Size	List Price	Shipping Weight
2277	5 Tons	6′ x 5′	$400.00	1400
2279	5 Tons	8′ x 6′	415.00	1500
2281	5 Tons	9′ x 7′	430.00	1700
2285	10 Tons	8′ x 6′	540.00	1700
2287	10 Tons	9′ x 7′	585.00	2000

Suspended Platform Industrial Scales With Dials

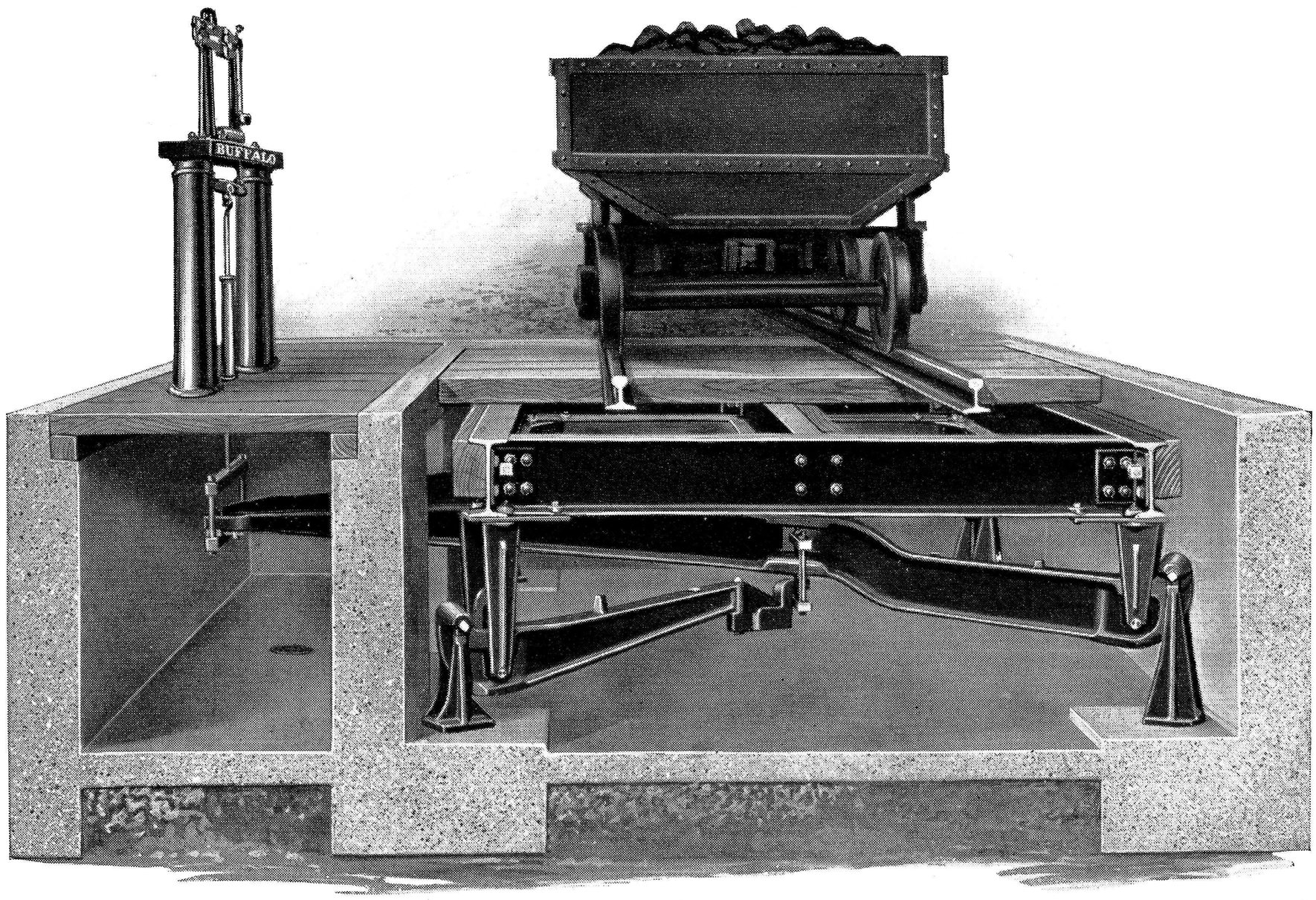


BUFFALO suspended platform industrial scales equipped with full capacity dials combine speed and convenience with the unparalled accuracy of the BUFFALO single link construction.

These scales may be set on stands, as shown in the preceding illustration or may be suspended from the floor where the construction of foundation piers is not convenient. Designed to meet the specifications of the American Railway Engineering Association, these scales are built with a large factor of safety to withstand shocks and sudden impacts.

Cat. No.	Platform Size	Chart Capacity	No. of Drop Wgts.	Tare Beam		Total Capacity
				Main Bar	Frac. Bar	
4401	6′ x 5′	2,000 x 1 lbs.	1	800 x 200 lbs.	200 x 1 lbs.	3,000 lbs.
4402	8′ x 6′	2,000 x 1 lbs.	1	800 x 200 lbs.	200 x 1 lbs.	3,000 lbs.
4403	9′ x 7′	2,000 x 1 lbs.	1	800 x 200 lbs.	200 x 1 lbs.	3,000 lbs.
4411	6′ x 5′	5,000 x 1 lbs.	4	800 x 200 lbs.	200 x 1 lbs.	6,000 lbs.
4412	8′ x 6′	5,000 x 1 lbs.	4	800 x 200 lbs.	200 x 1 lbs.	6,000 lbs.
4413	9′ x 7′	5,000 x 1 lbs.	4	800 x 200 lbs.	200 x 1 lbs.	6,000 lbs.
4421	6′ x 5′	4,000 x 2 lbs.	1	1,600 x 400 lbs.	400 x 2 lbs.	6,000 lbs.
4422	8′ x 6′	4,000 x 2 lbs.	1	1,600 x 400 lbs.	400 x 2 lbs.	6,000 lbs.
4423	9′ x 7′	4,000 x 2 lbs.	1	1,600 x 400 lbs.	400 x 2 lbs.	6,000 lbs.
4431	6′ x 5′	10,000 x 2 lbs.	4	1,600 x 400 lbs.	400 x 2 lbs.	12,000 lbs.
4432	8′ x 6′	10,000 x 2 lbs.	4	1,600 x 400 lbs.	400 x 2 lbs.	12,000 lbs.
4433	9′ x 7′	10,000 x 2 lbs.	4	1,600 x 400 lbs.	400 x 2 lbs.	12,000 lbs.
4441	6′ x 5′	10,000 x 5 lbs.	1	4,000 x 1,000 lbs.	1,000 x 5 lbs.	15,000 lbs.
4442	8′ x 6′	10,000 x 5 lbs.	1	4,000 x 1,000 lbs.	1,000 x 5 lbs.	15,000 lbs.
4443	9′ x 7′	10,000 x 5 lbs.	1	4,000 x 1,000 lbs.	1,000 x 5 lbs.	15,000 lbs.
4454	8′ x 6′	20,000 x 5 lbs.	3	4,000 x 1,000 lbs.	1,000 x 5 lbs.	25,000 lbs.
4455	9′ x 7′	20,000 x 5 lbs.	3	4,000 x 1,000 lbs.	1,000 x 5 lbs.	25,000 lbs.
4464	8′ x 6′	20,000 x 10 lbs.	1	8,000 x 2,000 lbs.	2,000 x 10 lbs.	30,000 lbs.
4465	9′ x 7′	20,000 x 10 lbs.	1	8,000 x 2,000 lbs.	2,000 x 10 lbs.	30,000 lbs.

Mine Car Scales



Straight Lever Type with Suspended Platform.

This equipment is modern in every respect and contains the latest refinements in this type of construction.

The "A" pattern single link suspension bearing scale is set on stands as shown, or the scale may be suspended from a frame. It is designed to the low stress called for by the American Railway Engineering Association, with corner loadings of 40%. In other words, each end of the platform will sustain 80% of the rated capacity of the scale without exceeding the stresses called for.

The suspension bearing (BUFFALO Single Link Construction) is the simplest, sturdiest and most flexible ever devised—First used on Railway Track Scales and Hopper Scales, the same design is now incorporated in the "A" pattern Mine Scales.

The levers are one-piece heavy iron castings, eliminating truss rods.

The weigh beam may be compound, as shown, or a double brass beam and weights, or a type registering beam.

The AUTO-WEIGHT described on another page, may be attached and so make the scale automatic.

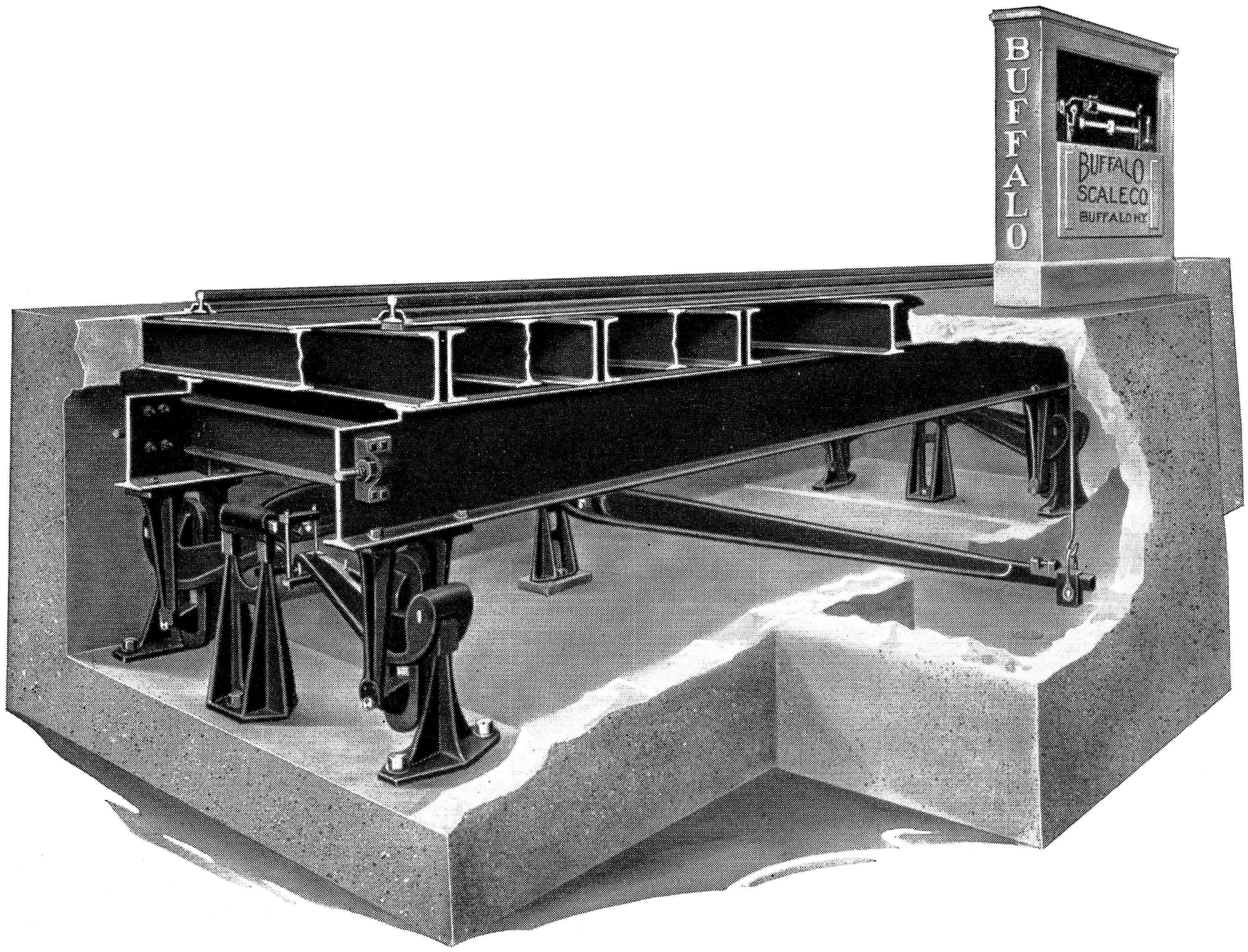
A beam box may be had, if desired, instead of the short iron pillars and shelf, regularly supplied to support the weigh beam.

No.	Platform Size*	Capacity	Beam Capacity			Weight of Scale	Weight of Steel F. Deck	Weight of Steel Rigid Deck
			Net Bar	Tare Bar	Unit			
3277	6′ x 5′	10-tons	10,000	5,000	1,000 x 10	1400	400	1150
3279	10′ x 5′-7″	10-tons	10,000	5,000	1,000 x 10	1500	500	1500
3281	12′ x 6′-5″	10-tons	10,000	5,000	1,000 x 10	1600	700	1825
3285	10′ x 5′-7″	20-tons	20,000	8,000	1,000 x 10	1800	700	1700
3287	12′ x 6′-5″	20-tons	20,000	8,000	1,000 x 10	1900	900	2025

* Many variations of these platform sizes will be furnished upon request.

The AUTO-WEIGHT which is an accurate, double faced, automatic device, with chart graduated 10,000 pounds x 50, may be attached to any BUFFALO Mine Scale. The scales are also furnished with BUFFALO FULL CAPACITY AUTOMATIC DIALS.

Mine Car Scale



Railroad Type for Extra Heavy Duty

Modern Mine Scales differ from the equipment of 10 or 20 years ago and must meet the demands for heavier and more durable weighing machines.

The BUFFALO 2-section Suspended Bearing construction is the last word in this type of scale.

The design is the same as the 200-ton BUFFALO Railroad Track Scale, only in parts of smaller size. It is equipped with a sturdy steel bridge and either dead or live deck.

The illustration shows such a scale with dead deck and live rails. The ends are bridged so that when the load reaches the scale rails, it is inside the line of the bearings and were it possible to apply the full load at that point, there would be no lift or tip to the platform.

The BUFFALO Single Link Suspended Bearing used in BUFFALO Railroad Track Scales is used in these Mine Car Scales. There are but six simple parts, perfectly coordinated to produce maximum freedom of motion—minimum wear and enduring accuracy. Every part in these scales is designated to withstand many times the stress that will be given it in service.

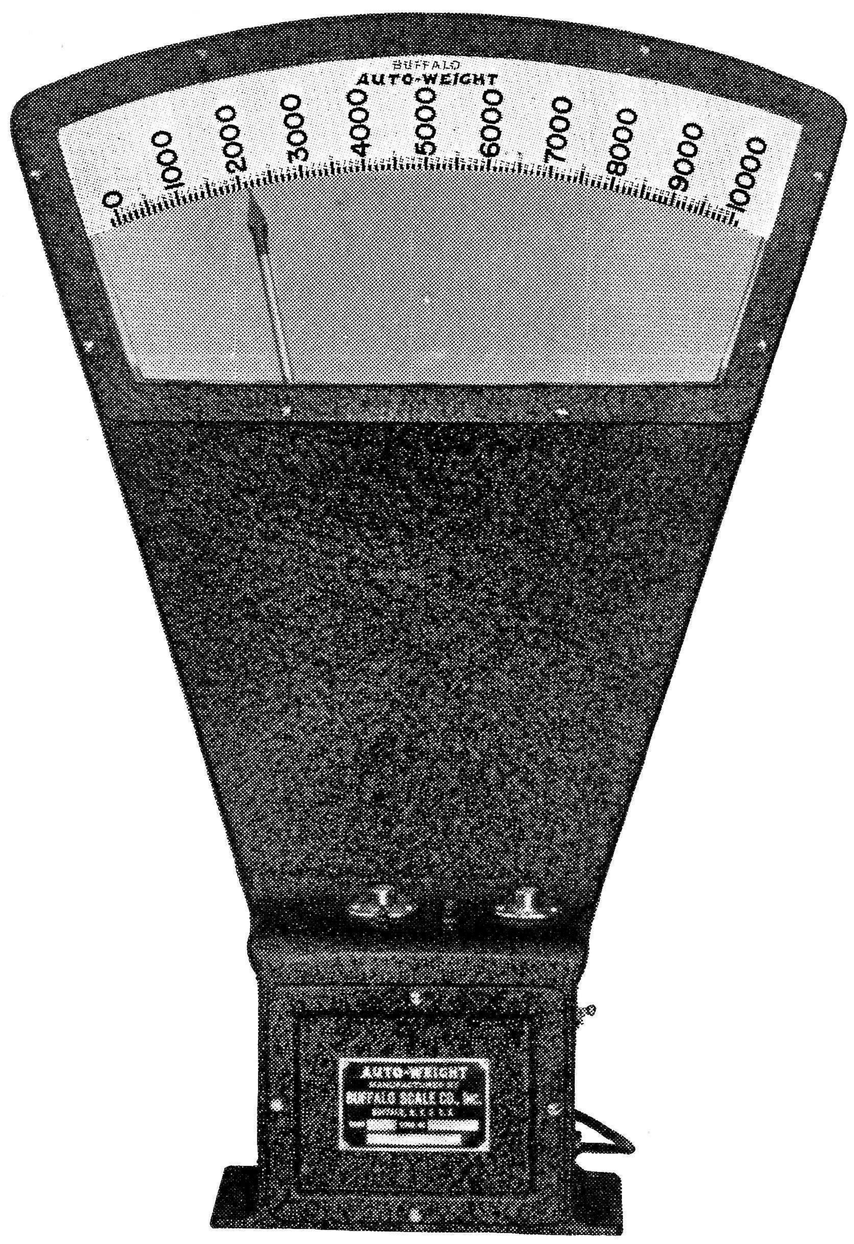
All suspension links and bridge bars are electric cast steel.

All pivots are of high carbon steel and must show a hardness of 60 on the Rockwell Tester.

These scales may be had any length, width or capacity.

They can be furnished with full capacity or recording beams, can be equipped with the BUFFALO AUTO-WEIGHT with chart capacity 10,000 lbs. by 50 lbs. or with BUFFALO full capacity dials, or BUFFALO AUTOMATIC RECORDERS as described on page K-4.

Buffalo Auto-Weight Dial For Mine Scales

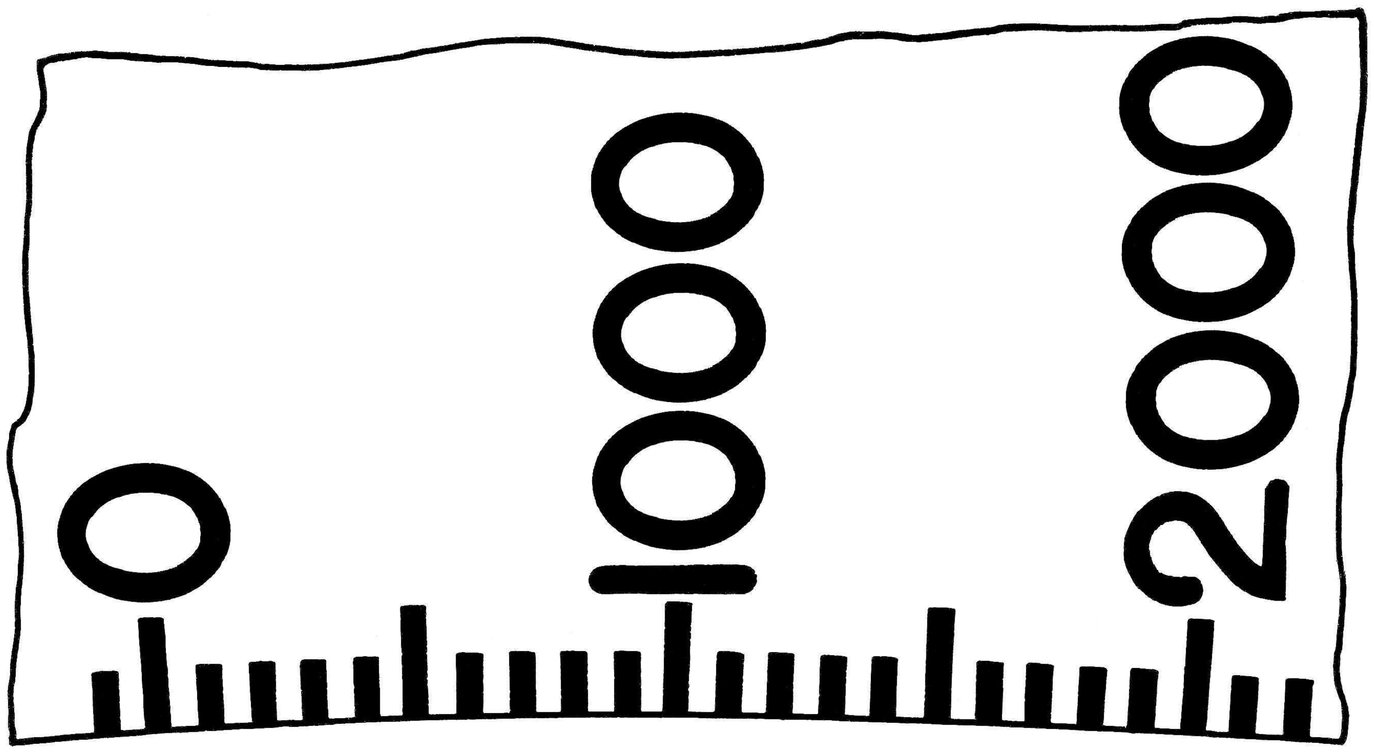


Among the Buffalo Scale Company's major contributions to industry in recent years is the adaption of the BUFFALO Auto-Weight for mine scale use. For many years the old spring dial "Quick Weigh Outfit" has been a constant source of inaccuracy and consequently of trouble between operators and miners.

The BUFFALO Auto-Weight has solved all problems presented by the spring dial. The single pendulum dial without rack or pinion, gives constant and permanent accuracy. An easily regulated dash pot eliminates vibration of the indicator and makes quick, accurate reading of weights possible. The indicator is directly under the chart—No parallax—company weighman and check weighman read the dial alike, regardless of where each stands.

As mine weights are recorded to the nearest fifty pounds, a special mine chart reading from 0 to 10,000 pounds x 50 pound graduations is provided. The tare weight of the mine car is set off on the beam of the scale and the net weight of the coal is read directly from the dial.

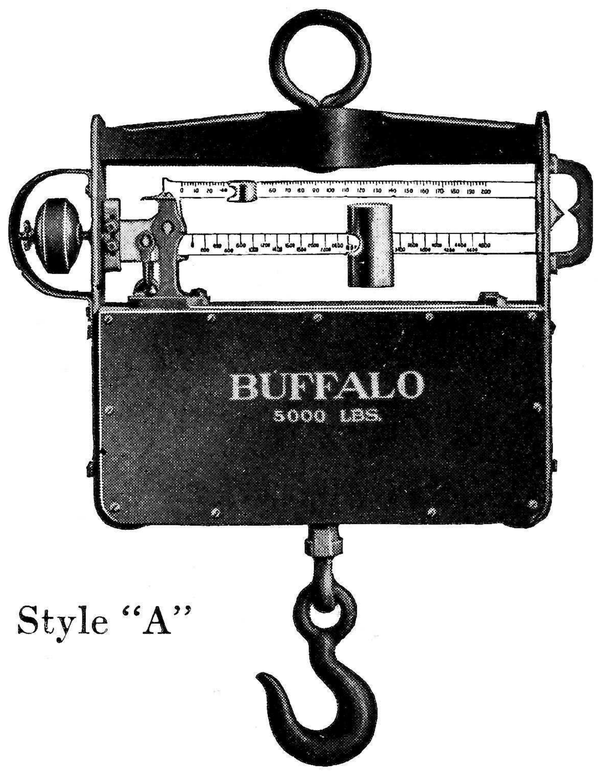
The Auto-Weight Dial can be attached to any type of mine scale now in service, regardless of whether the scale is equipped with single, double or full capacity beam.



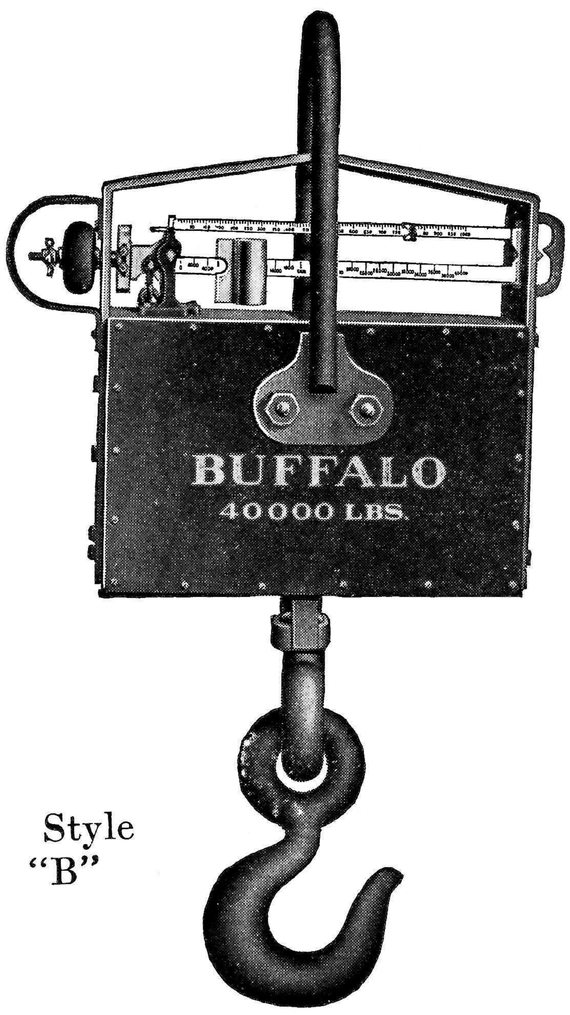
Actual size of mine scale chart graduations.

Suspension Crane Scales

These scales are used wherever material is handled by cranes. They have been adapted by the U. S. Navy for weighing material as it is loaded on ships. They also have a wide range of usefulness in steel mills, foundries and plants making large machinery. The labor of placing a heavy object on and off a platform scale is eliminated as the crane scale is attached to the crane and weighs the object while it is being moved.



Style "A"



Style "B"

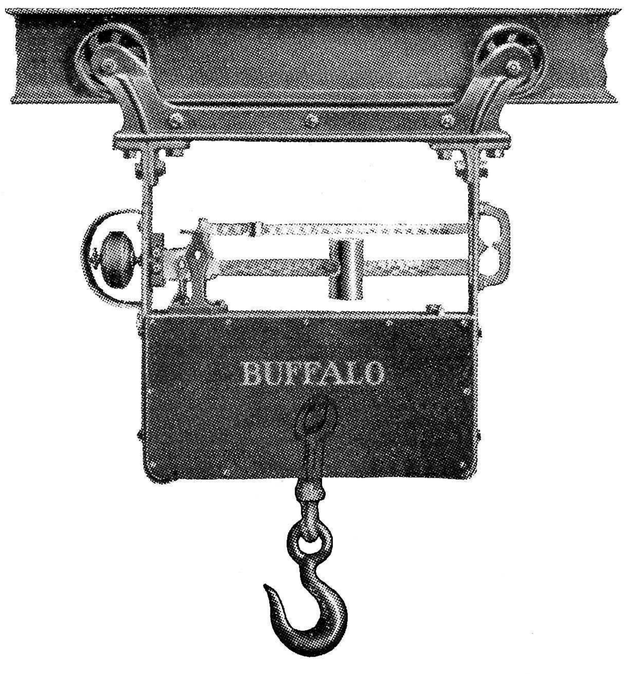
The scale levers and fittings are made of steel and are enclosed in a cast steel box. The scale is very ruggedly constructed to withstand the shocks and impacts which it receives in this type of service.

The height given in the above description is the distance from the inside of the loop at the top to the inside of the hook beneath.

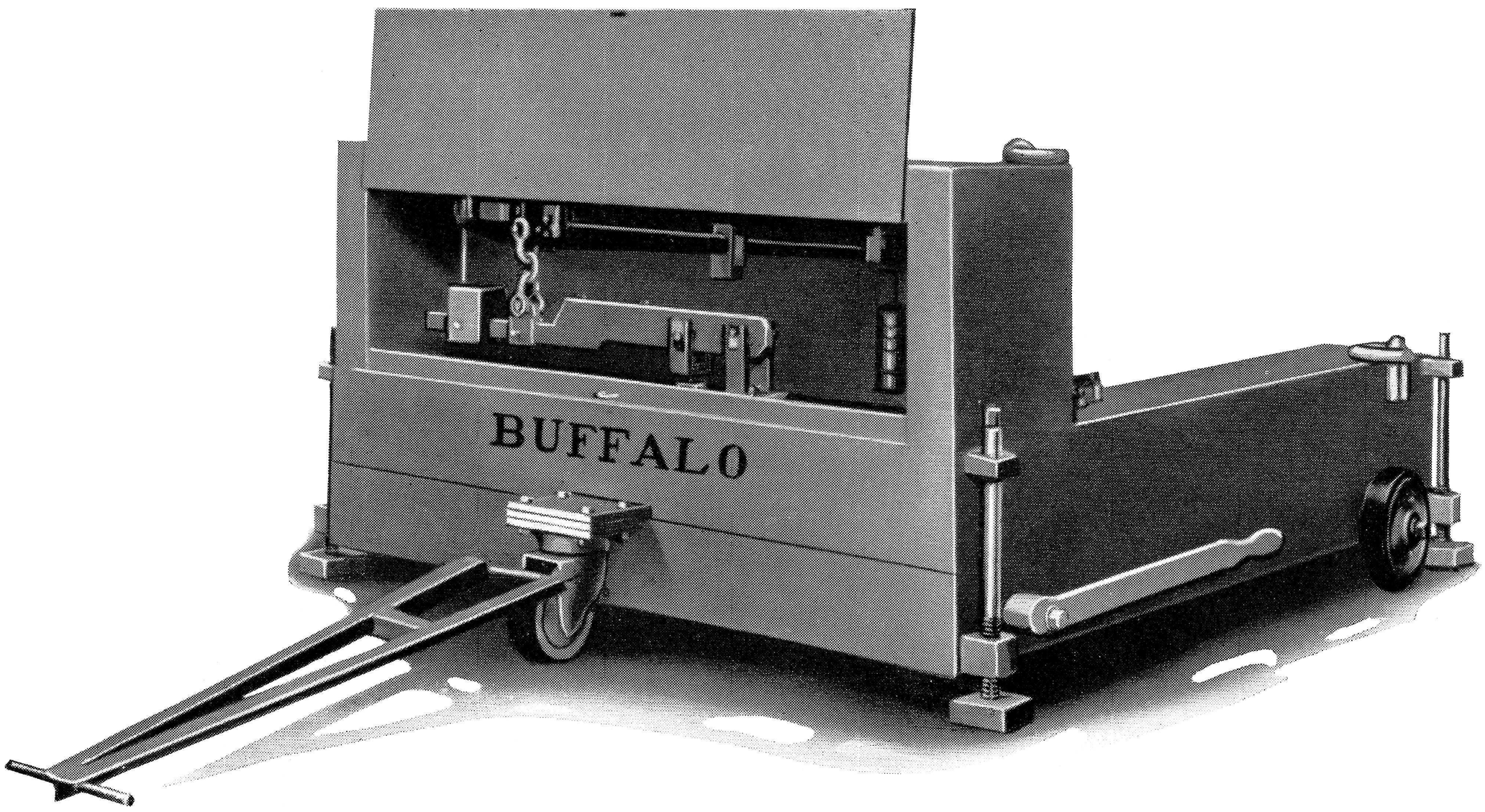
No.	Style	Capacity	Height	List Price	Shipping Weight
1482	A	2,500 x 1 lb.	28¼"	$ 150.00	134
1484	A	5,000 x 2 lbs.	38"	250.00	266
1488	B	10,000 x 2 lbs.	50"	350.00	515
1491	B	20,000 x 5 lbs.	53½"	500.00	525
1493	B	30,000 x 5 lbs.	63"	550.00	825
1495	B	40,000 x 5 lbs.	63½"	650.00	925
1496	B	60,000 x 10 lbs.	68"	1,400.00	2100
1497	B	80,000 x 10 lbs.	68"	1,500.00	2200

Monorail Crane Scale

Crane scales are also attached to trolleys for handling material on monorails. Prices on this type of equipment will be furnished on application.



Airplane Scales



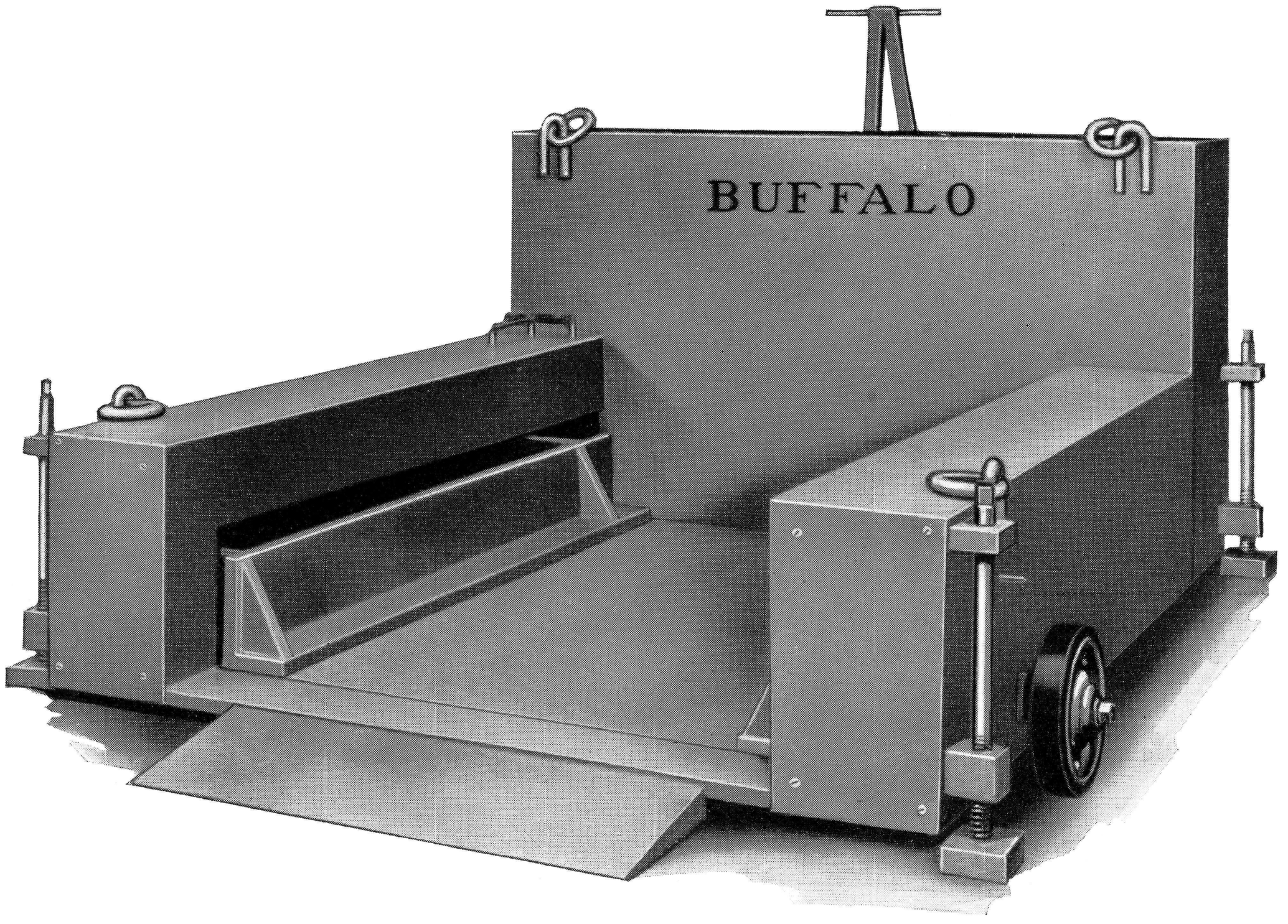
BUFFALO Airplane Scales have been introduced to meet a special need of the rapidly expanding aviation industry. They are used in pairs for weighing the two front wheels of a plane. An ordinary portable scale can be used for weighing the tail skid, or if it is desirable to obtain the weight of the plane in flying position, the tail skid can be raised and weighed on a BUFFALO No. 1482 Crane Scale.

The Airplane Scales are made with a low platform consisting of a single heavy steel plate the top of which is only above the floor when the scale is in weighing position. This eliminates the necessity of raising the plane to a high scale.

The scales are portable, being made with retractible wheels, so that they can be lowered to rest on the floor when in use, or on to adjustable corner jacks that are provided at a small additional charge.

The frames of these scales are made of heavy steel sections securely welded together. The front of the scale is raised to bring the beam to a convenient level for reading.

Airplane Scales

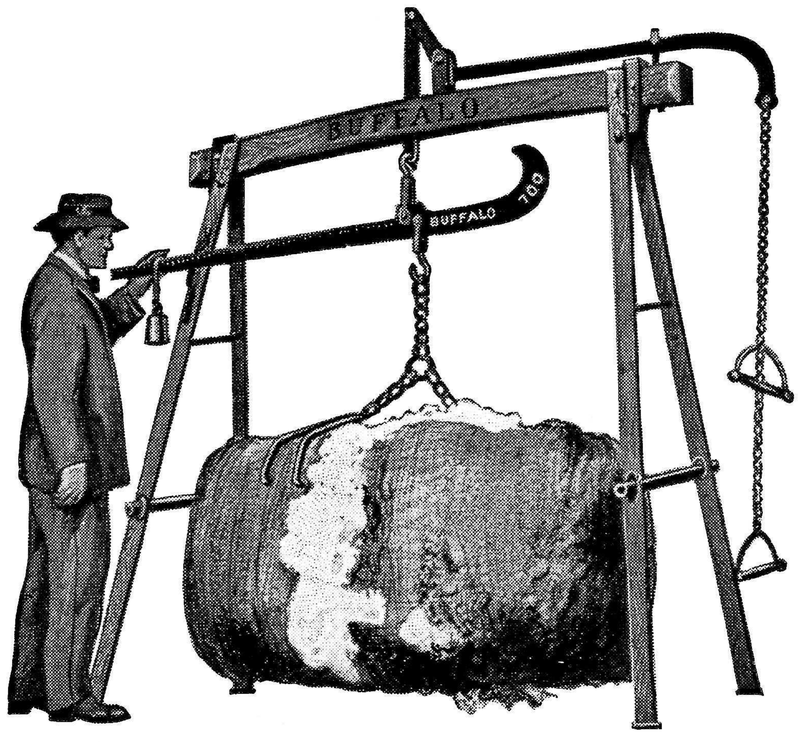


The platforms of these scales are suspended and swing freely from the lever mechanisms which are contained in the side sections of the scale. The wheels are rubber tired and ball bearing mounted. There are two at the rear of the scale while a single wheel is attached to the handle for easy manipulation of the scale. The wheels are easily raised and lowered by a single hand lever mounted on the side of the scale.

These scales are attractively finished in battleship grey.

We have manufactured the scales in larger capacities and with special platform sizes to meet customers' requirements. Regular sizes are listed below.

No.	Capacity	Platform Size	Beam		List Price
			Main Bar	Fractional Bar	
1650	10,000 lbs.	24″ x 48″	10,000 x 1,000 lbs.	1,000 x 5 lbs.	$1015.00
1651	10,000 lbs.	24″ x 48″	10,000 x 1,000 lbs.	1,000 x 2½ lbs.	1065.00
1652	15,000 lbs.	36″ x 48″	15,000 x 1,000 lbs.	1,000 x 5 lbs.	1125.00
1653	15,000 lbs.	36″ x 48″	15,000 x 1,000 lbs.	1,000 x 2½ lbs.	1175.00
1654	20,000 lbs.	36″ x 48″	20,000 x 1,000 lbs.	1,000 x 5 lbs.	1350.00
1655	20,000 lbs.	36″ x 48″	20,000 x 1,000 lbs.	1,000 x 2½ lbs.	1400.00



Cotton Scales

The "Buffalo" Iron-Shod Cotton Scale has a perfectly balanced beam about seven feet in length.

Smooth beams are most commonly used and scales are so listed. Notched beams furnished at small additional price.

The frame is of selected hardwood and is substantially made. The legs are fitted with iron shoes to prevent splitting.

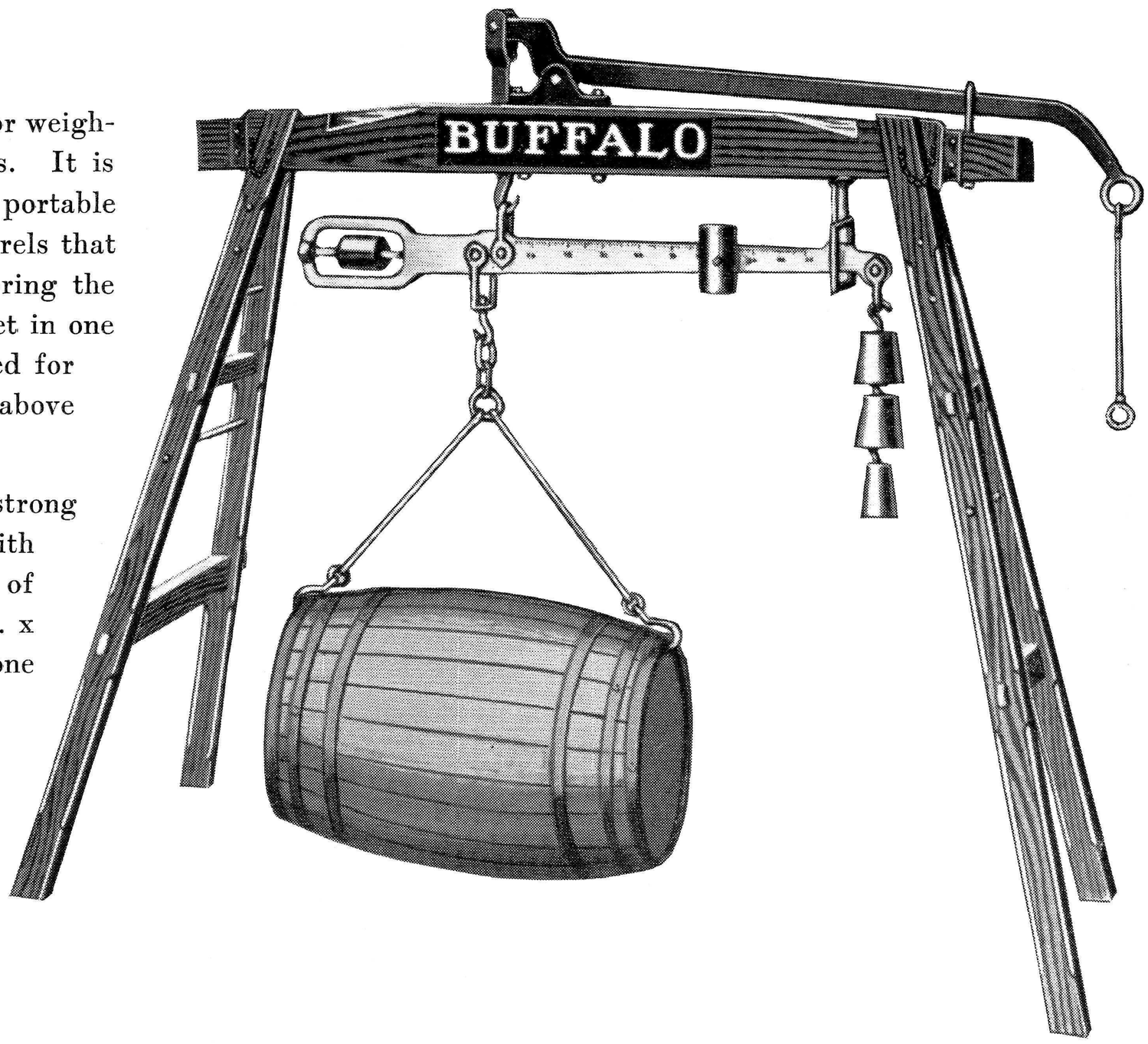
All iron work is japanned black. The finish of the woodwork is natural color, varnished.

No.	Capacity	Equipment	List Price	Shipping Weight
1430	700 x 1 lb.	Regular small hooks	$ 90.00	220
1431	800 x 1 lb.	Regular small hooks	105.00	250
1434	700 x 1 lb.	Beam & Poises only	50.00	100
1436	800 x 1 lb.	Beam & Poises only	60.00	125

Tierce Beams

Tierce Beams are convenient for weighing barrels, hogsheads or tierces. It is frequently easier to bring this portable type of scale to a number of barrels that are to be weighed rather than bring the barrels to a scale permanently set in one location. Barrels are easily lifted for weighing by the lever mounted above the frame.

These beams are made of a strong aluminum alloy and are fitted with sliding brass poises. Both sides of the beams are graduated 125 lbs. x ½ lb. Two 200 lb. weights and one 100 lb. weight are provided to make up the full capacity of the scale. The frames for these beams are made of selected hard wood and are in natural finish, well varnished.



COMPLETE WITH FRAME

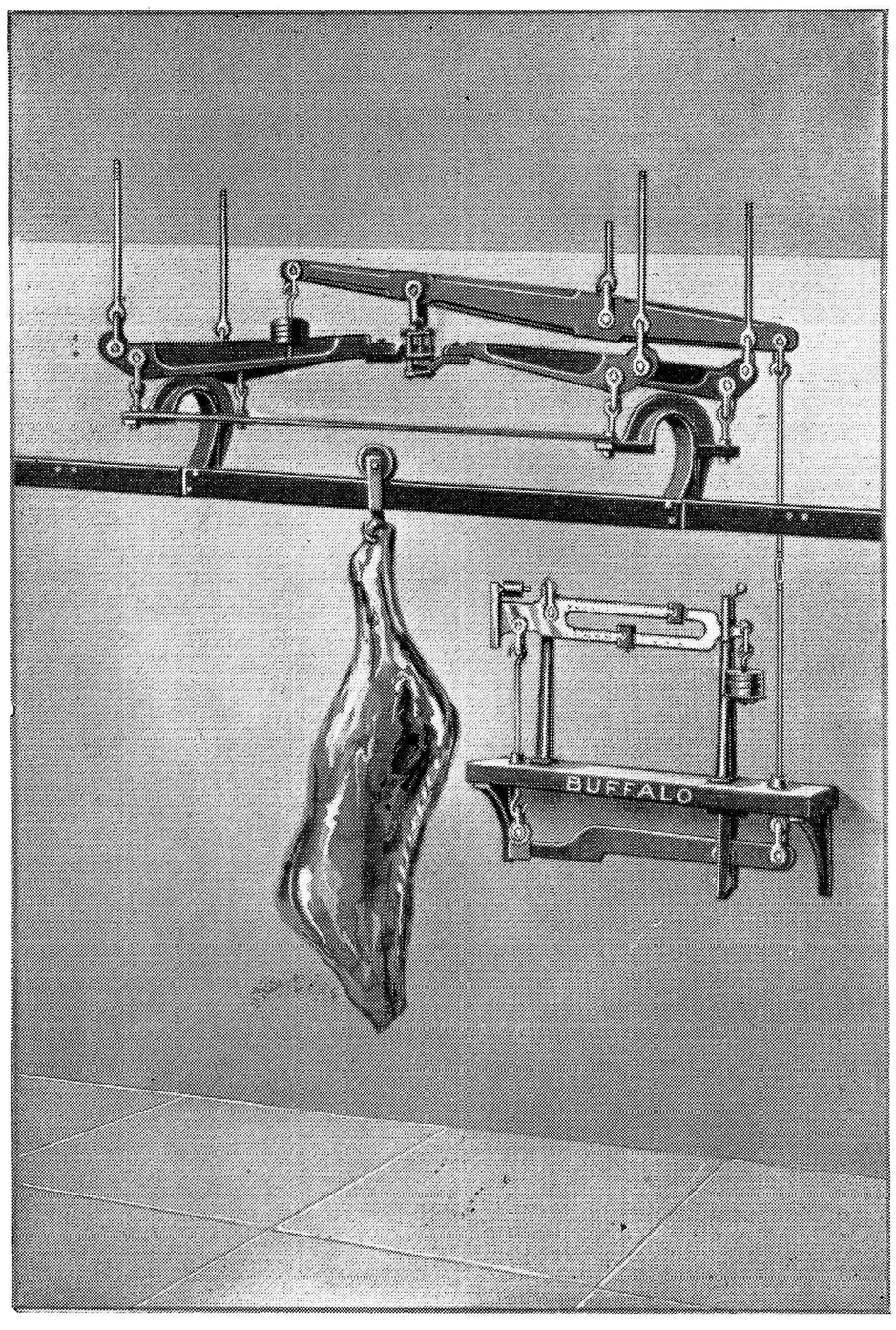
No.	Capacity	Shipping Weight	List Price
1438	625 lbs.	220 lbs.	$120.00

BEAM AND HOOKS ONLY WITHOUT FRAME

No.	Capacity	Shipping Weight	List Price
1440	625 lbs.	100 lbs	$90.00

THE WORLD'S STANDARD FOR THREE QUARTERS OF A CENTURY

Suspension Butchers' Scales



This scale is designed for weighing all articles handled on a suspended track, such as dressed beef, hogs, buckets of coal, etc.

A section of track is cut out and attached to the scale, which is placed above.

Unless otherwise specified Suspension Butchers' Scales are furnished with extension lever 6 feet long, and suspension rods of proper length to make distance from top of track to ceiling 24 inches.

The scale is regularly furnished with double brass beam and sliding poises, hard wood shelf and brackets for beam support.

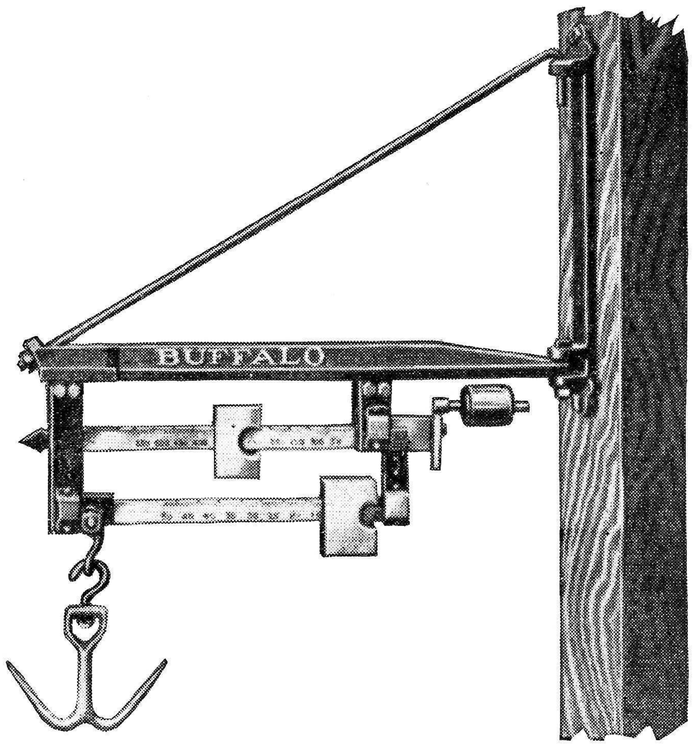
No.	Capacity	Track	Beam Each Bar	List Price	Shipping Weight
1565	1,500 lbs.	4 feet	100 x ½ lb.	$150.00	350
*1564	2,000 lbs.	4 feet	100 x ½ lb.	170.00	500
1566	2,000 lbs.	4 feet	100 x ½ lb.	170.00	360
1570	3,000 lbs.	6 feet	100 x ½ lb.	200.00	400

* This is shallow pattern for installation in 10 inch height.

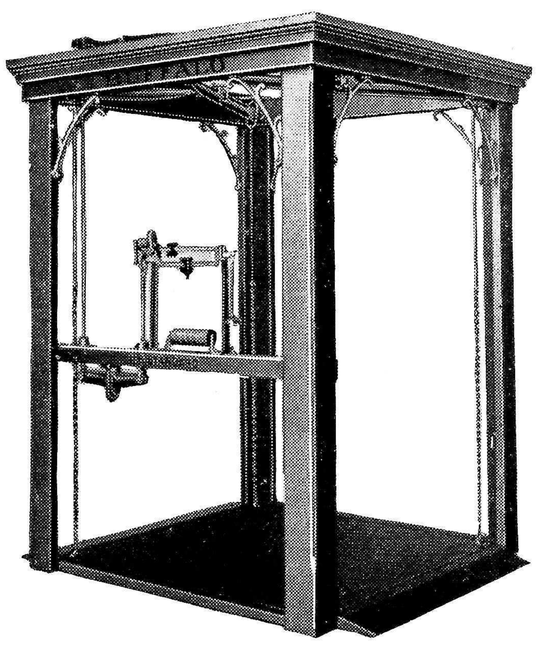
Meat Beam

This sturdy improved beam is made to attach to a post or wall. When not in use it may be swung aside. The beams and poises are of brass, the lower bar is graduated 25 pounds by ¼ pound, with marks 10 to the inch, the upper bar 575 pounds by 25-pound notches, three-quarters of an inch apart. The overall length of the iron cap is 27 inches. A galvanized double hook is furnished to receive the load to be weighed.

Number	Capacity	List Price	Shipping Weight
1599	600 lbs.	$42.00	60



Pitless Suspension Scales



Scales designed for general use but especially for weighing salt meat, fish, hides or other products injurious to the metal parts of scales. This scale may be set on the floor or in an opening cut for it. The platform, which is constructed of heavy boiler plate, hangs but 2 inches above floor and is provided with inclines to permit all types of trucks or barrels to be easily placed upon it. The frame work supporting scale is 8 feet high. The steel plate platform is 5 feet by 5 feet. Scale has double beam, graduation on upper bar 100 lbs. by ½ lb., lower bar 200 lbs. by 1 lb.

Capacity of scale 4,000 lbs.

No.	Description	Height Floor to Platform	List Price	Shipping Weight
1589	With Wood Frame, Metal Platform and Inclines ..	2″	$415.00	2400
1591	With All Metal Frame and Inclines	2″	420.00	1285
1590	With Wood Frame, Platform and Inclines	7½″	375.00	1000

Ceiling Suspension Scale

This scale is suspended from ceiling or overhead framework. Beam is placed conveniently to platform. Designed for hide dealers but is particularly adapted to weighing salt meat, fish or any article containing a large amount of moisture, as the mechanism is all overhead. It is not necessary to cut out the floor for installing this scale.

Scale is regularly furnished with double beam outfit, iron platform, and wood curbing to facilitate loading.

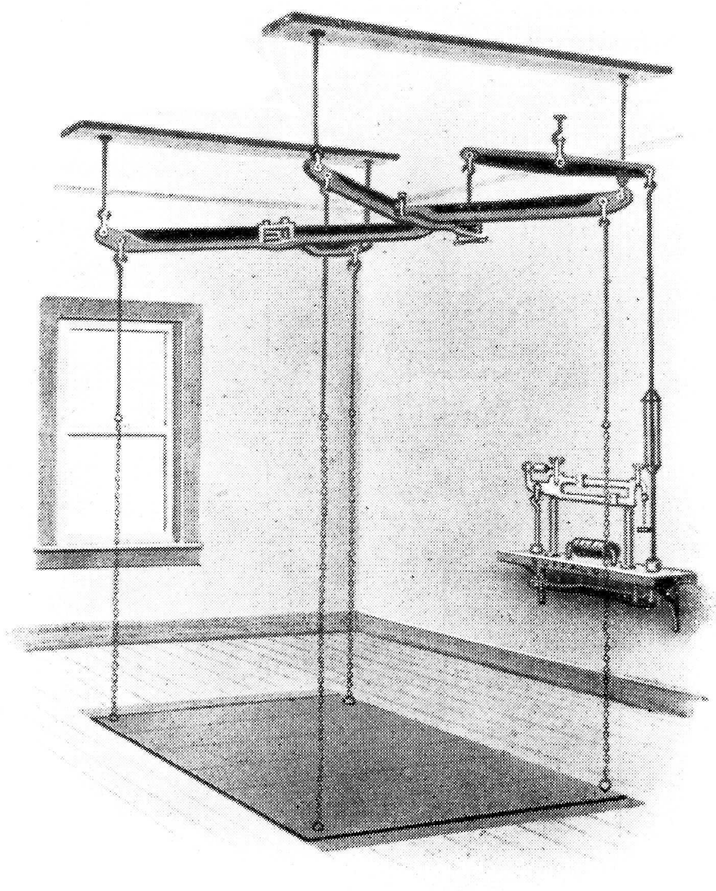
Curbing is easily removable, thus permitting cleaning of floor beneath platform.

Upper beam graduated 100 x ½ lb.

Lower beam graduated 200 x 1 lb.

Platform size, 5′ x 5′.

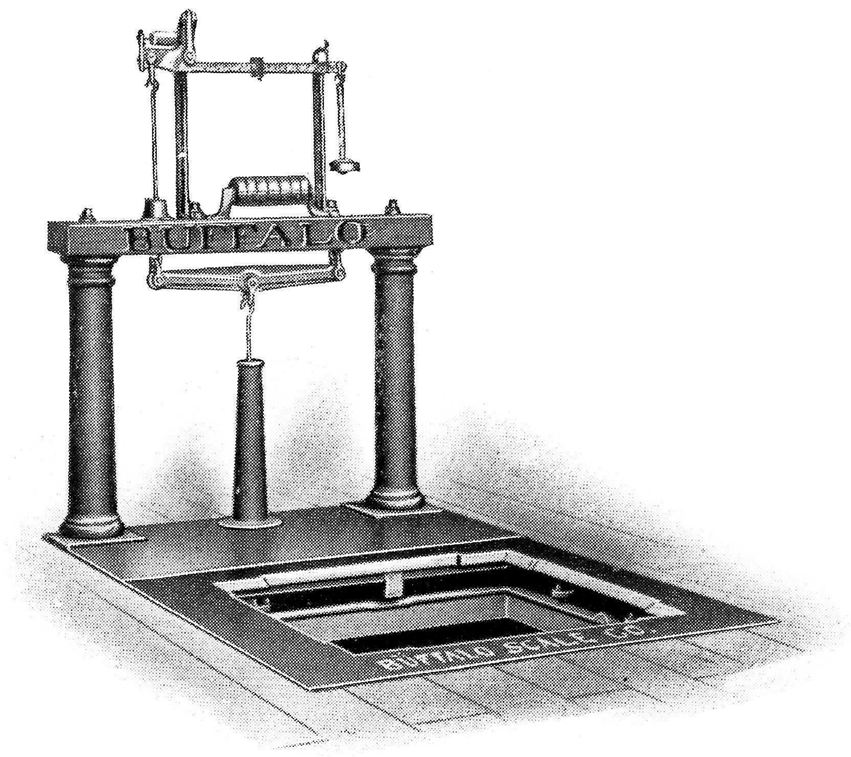
Platform size between rods, 4′ 7½″ x 4′ 5½″.



No.	Capacity	List Price	Shipping Weight
1593	4,000 lbs.	$300.00	430

1593-A. Same as above but without platform or curbing and with suspension rods 7 ft. 8 inches long, $230.00.

Dormant Type Hopper Scales

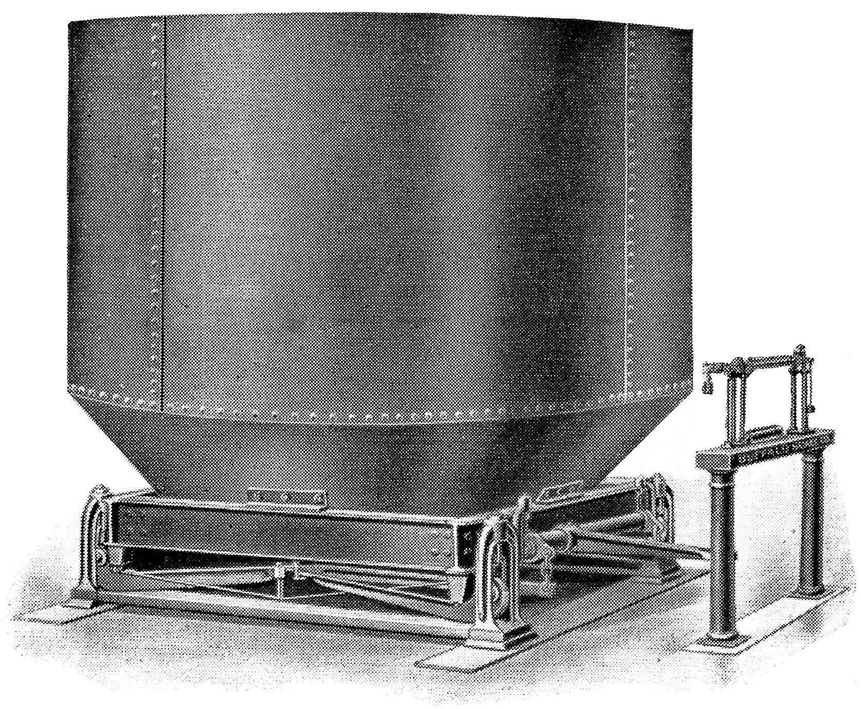


The dormant type hopper scales are widely used in grain warehouses, elevators and flour mills. They range in capacity from 60 bushels to 150 bushels. These scales are built into the floor for permanent installations. The lever systems are arranged to give large openings in the platforms for emptying the hoppers. Furnished with short iron pillars, heavy shelf and weight rack. The hopper is furnished by the purchaser.

No.	Capacity		Platform	Opening for Hopper	List Price
	Bushels	Pounds			
1778	60	3,600 x ½	42″ x 44″	18″ x 18″	$215.00
1780	100	6,000 x 1	50½″ x 49″	36″ x 36″	270.00
1784	150	9,000 x 1	50½″ x 49″	36″ x 36″	320.00

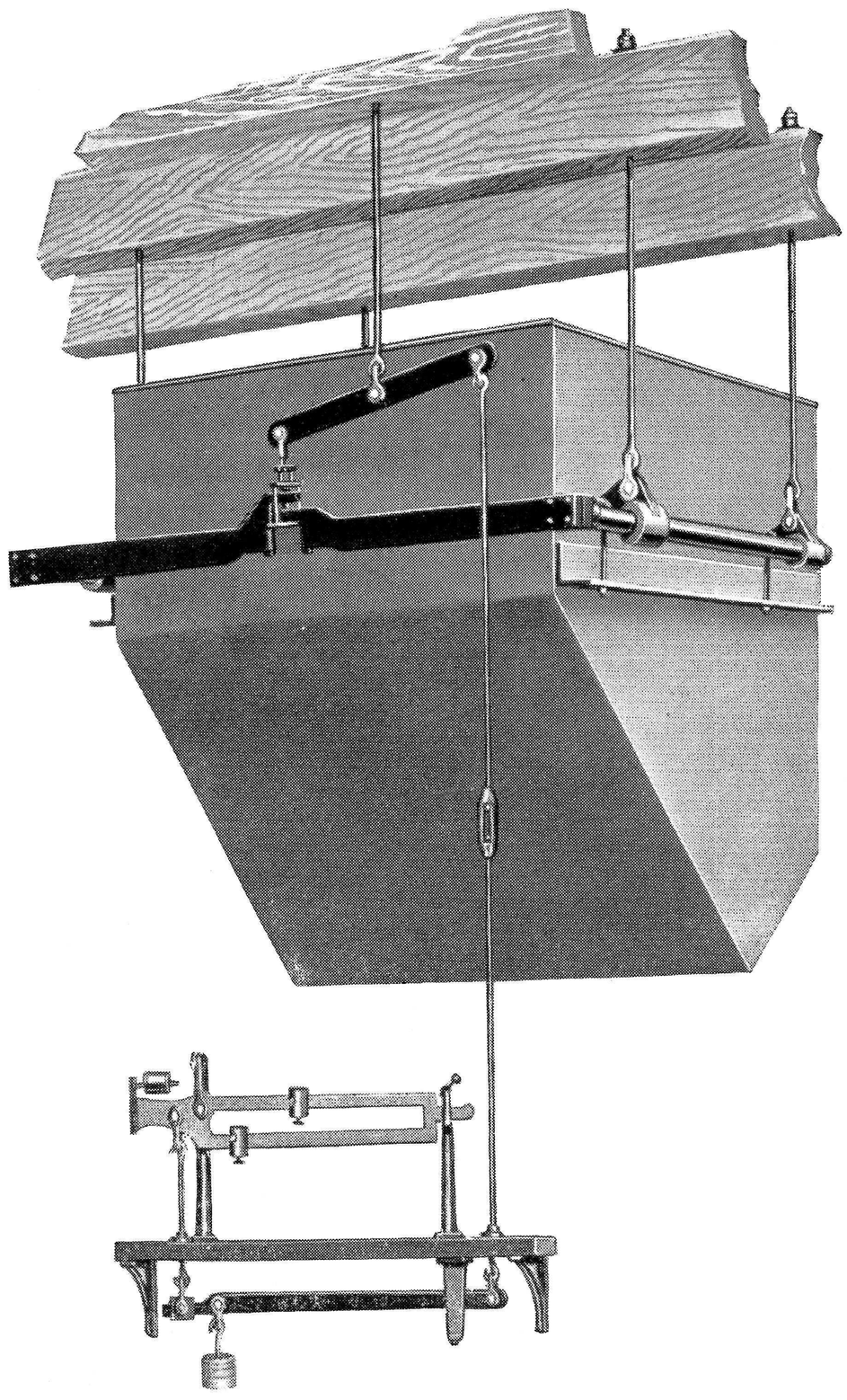
Shallow Pattern Hopper or Tank Scales

These scales used in terminal elevators and grain mills, are also adapted to weighing liquids in tanks with flat or conic bottoms. They will accommodate either a steel tank as shown or a wooden hopper. Installations are made directly upon the floor, requiring no cutting of the floor. The levers are supported by eye bolts hung in corner stands. This facilitates keeping the levers level at all times. Short iron pillars and hard wood shelf are provided for support of the beam.



No.	Capacity		Opening for Hopper	List Price
	Bushels	Pounds		
1829	300	18,000 x 5	79″ x 79″	$470.00
1835	500	30,000 x 5	96″ x 96″	590.00
1841	800	48,000 x 5	96″ x 96″	720.00
1847	1,200	72,000 x 5	96″ x 96″	900.00

Pipe Lever Hopper And Tank Scales



Pipe Lever Suspension Scales serve a wide range of industries and are manufactured with many variations to meet the special requirements of each. They are used for weighing coal, ore, sand, stone, chemical ingredients and many other materials.

In capacity they range from 500 lbs. to 300,000 lbs. The length of pipe levers and arms can be varied to accommodate any size of hopper. Length of hanging rods and extension levers to locate the beam are also made to meet the customers needs.

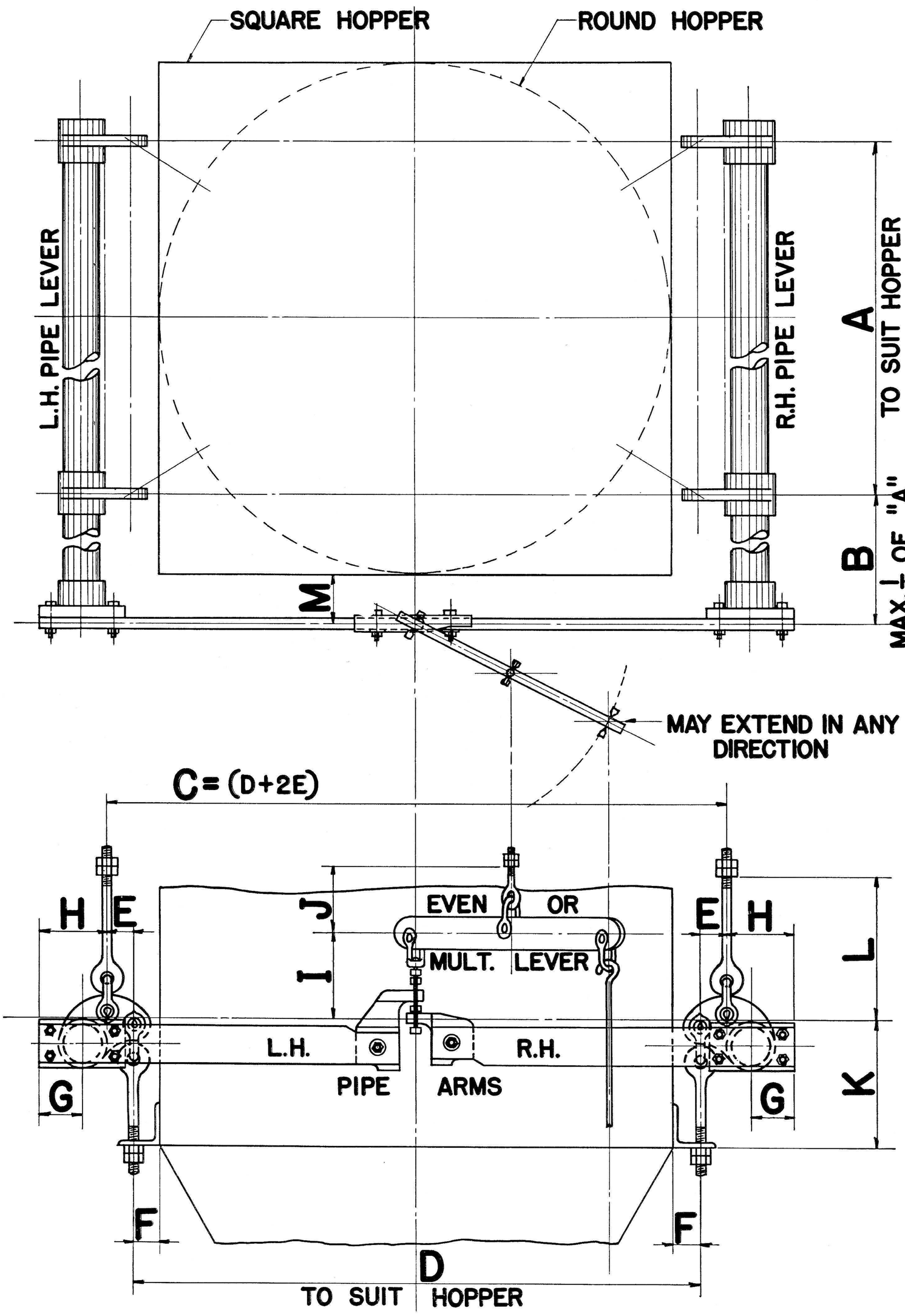
The scales may be suspended from above as here shown, set on stands, placed in a tipple or attached to a traveling crane or larry car.

Any type of beam will be furnished—single, compound, recording or special batch mixing beams.

Where automatic weighing is desired, the BUFFALO SCALE COMPANY, INC., can offer a wide choice of equipment. For predetermined weighing the Auto-Weight is recommended. It can be attached to the beam as an indicating dial for visual warning only, or can be used in connection with photo electric cells for full automatic control as described in section "M" of this catalog, or in our separate bulletin No. 385.

For complete automatic weighing we offer the BUFFALO Weightograph or BUFFALO Full Capacity Dial.

Pipe Lever Hopper And Tank Scales



On this page is illustrated a typical lever system of a Pipe Lever Suspension Scale. The lettered dimensions can be filled in to provide scale hanging points, hopper hanging points and beam location to suit the particular installation at hand.

In writing for information, give the maximum load and kind of material to be weighed—also state the type of beam or automatic weighing equipment that is preferred. Dimensions may be sent in accordance with the illustrated plan, or merely state the size of hopper and desired distance from hopper to beam rod.

Hopper Scales

Heavy Duty Hopper Scales with Single Link Suspension Bearings and Solid Levers.

The demand for extreme accuracy in weighing grain in large draughts has led to the production of a scale that contains all the refinements of construction developed by the Buffalo Scale Company in sixty years of hopper scale building.

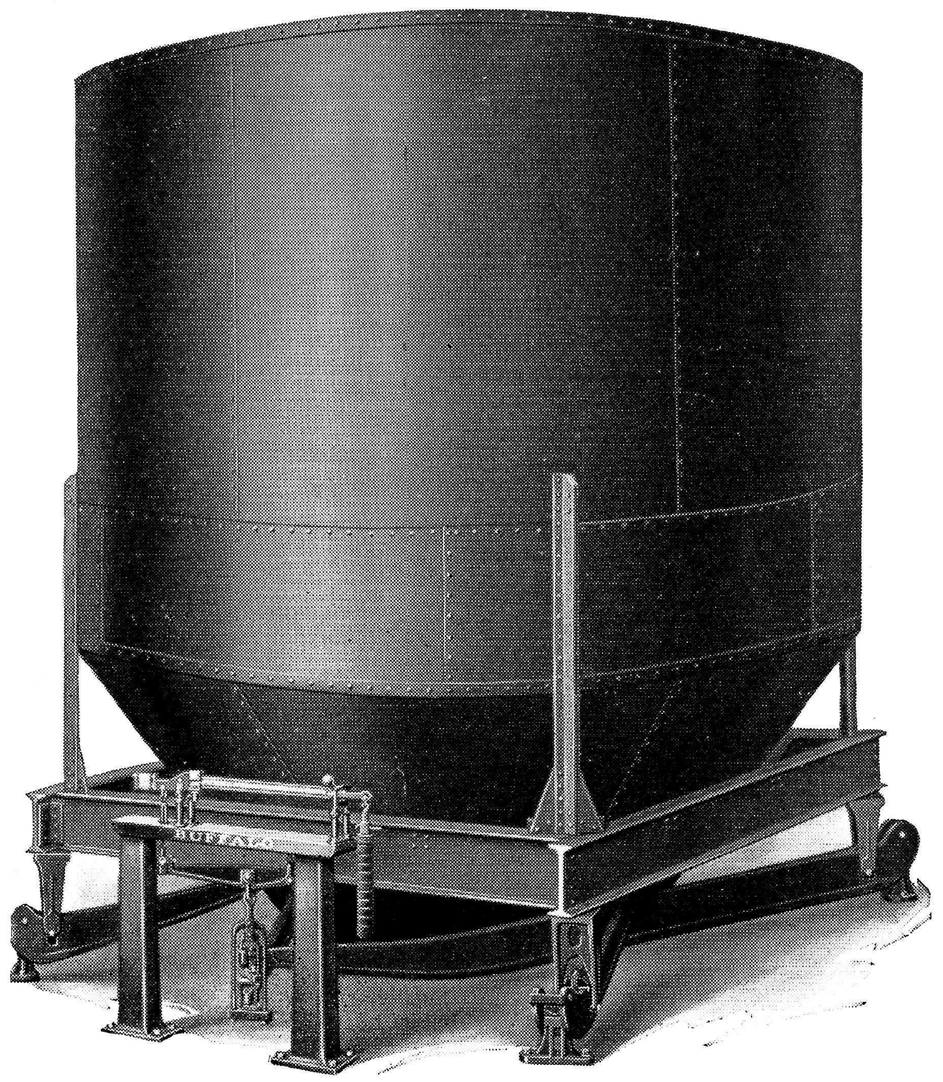
The single link, suspension bearing which has shown such wonderful results in heavy duty Railroad Track Scales has also been used in this hopper scale and in this type, the purchaser may have a scale supported on chairs resting on a suitable floor, shown in illustration, or a scale suspended in or below an opening in the floor.

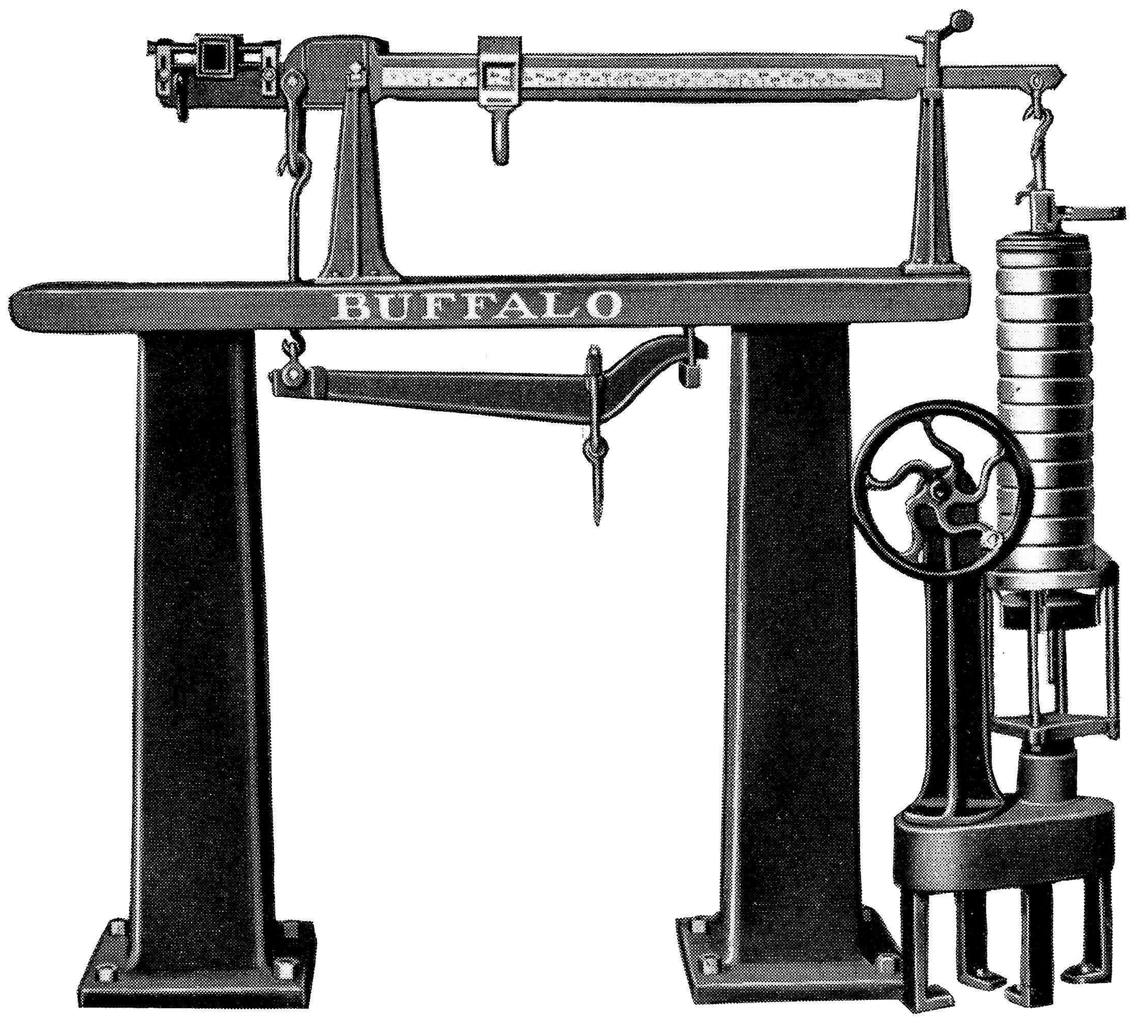
Full specifications, plans and prices will be furnished upon request.

Listed with regular single beam.

No.	Capacity		Opening for Hopper	List Price
	Bushels	Pounds		
1855	2,000	120,000	11 ft. x 11 ft.	$2140.00
1857	2,500	150,000	12 ft. x 12 ft.	2500.00

Extra for recording beam, No. 1855 ..... $260.00
Extra for recording beam, No. 1857 ..... 300.00
Extra for full capacity recording beam for No. 1855 ..... 560.00
Extra for full capacity recording beam for No. 1857 ..... 600.00





Weight Lifting Device for Hopper Scales

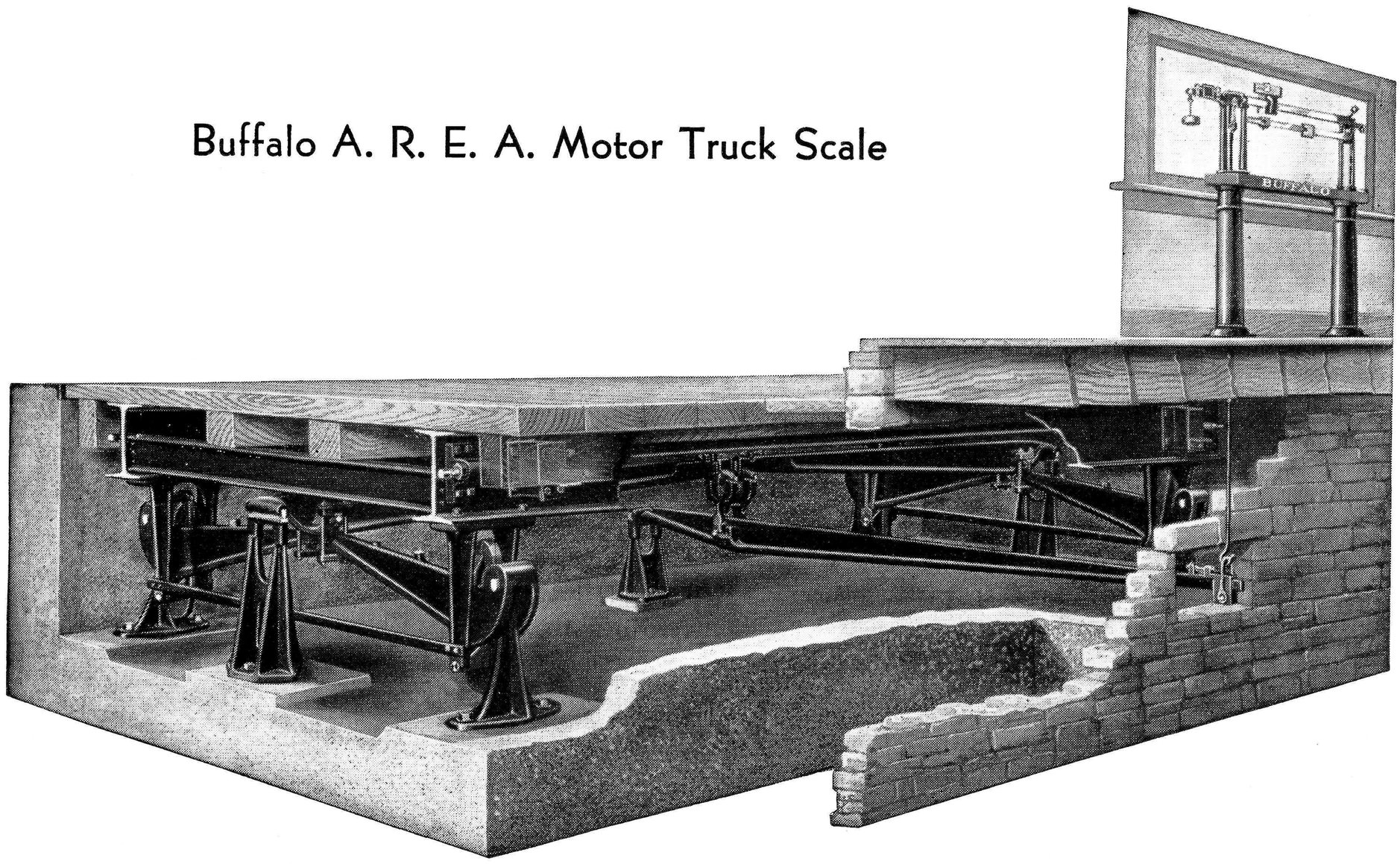
The weight lifting device is a feature that speeds up the weighing operation and at the same time protects the scale beam. It allows the weigh master to quickly check the balance of the scale and to make certain that all the grain is completely discharged from the hoppers.

A few turns of the handle will lift the entire set of counterpoise weights clear of the hanger and if all the grain is out of the hopper the beam will then balance perfectly.

Extra List Price for Weight Lifting Device
For All Hopper Scales Add $200.00

Single Link Suspension Bearing Motor Truck Scales

Buffalo A. R. E. A. Motor Truck Scale



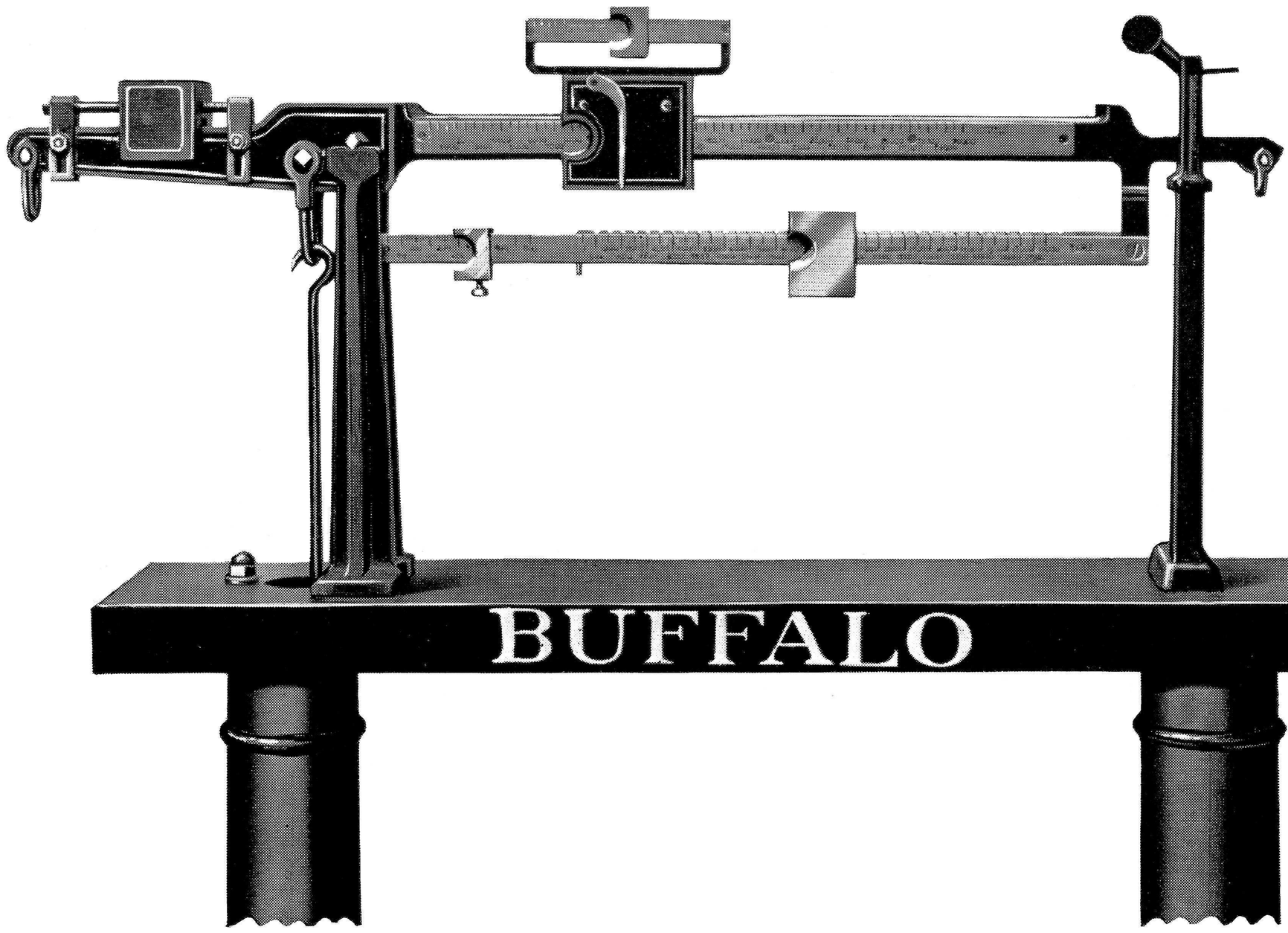
It is our belief—and users agree with us in this belief—that no other scale built offers you an equivalent of the Buffalo Motor Truck Scale in sustained accuracy, carefree operation and low maintenance.

Any unbiased engineer will agree that the Buffalo Suspension Bearings have no equal in their simplicity—and low factor of friction. To the experienced buyer this immediately means greater sensitivity and increased accuracy. Any experienced buyer will likewise recognize that the design of the Buffalo Scale Bridge conforms with the most advanced practices in structural steel engineering. This means that it is properly constructed to withstand maximum loading without undue strain at any point. No breakdowns. And the scale is so designed that regardless of the position of the load, 100% of the load weight is transmitted accurately to the beam. This means whether the load is small or large, perfectly centered or off center, Buffalo Motor Truck Scales will weigh that load with impartial accuracy.

It is these performance qualities in Buffalo Motor Truck Scales which have made them the preferred scales of many of the country's foremost users of motor truck scales. When we tell you that Buffalo Scales installed a half century or more ago are still in use and giving satisfactory service—you can understand why users call Buffalo Scales "Trustworthy."

Buffalo Motor Truck Scales are built by master craftsmen, under a program of carefully controlled production. They appeal particularly to scale buyers who realize that to safeguard their profits they should choose the finest weighing equipment their money can buy.

Single Link Suspension Bearing Motor Truck Scales



BUFFALO STANDARD MOTOR TRUCK SCALES

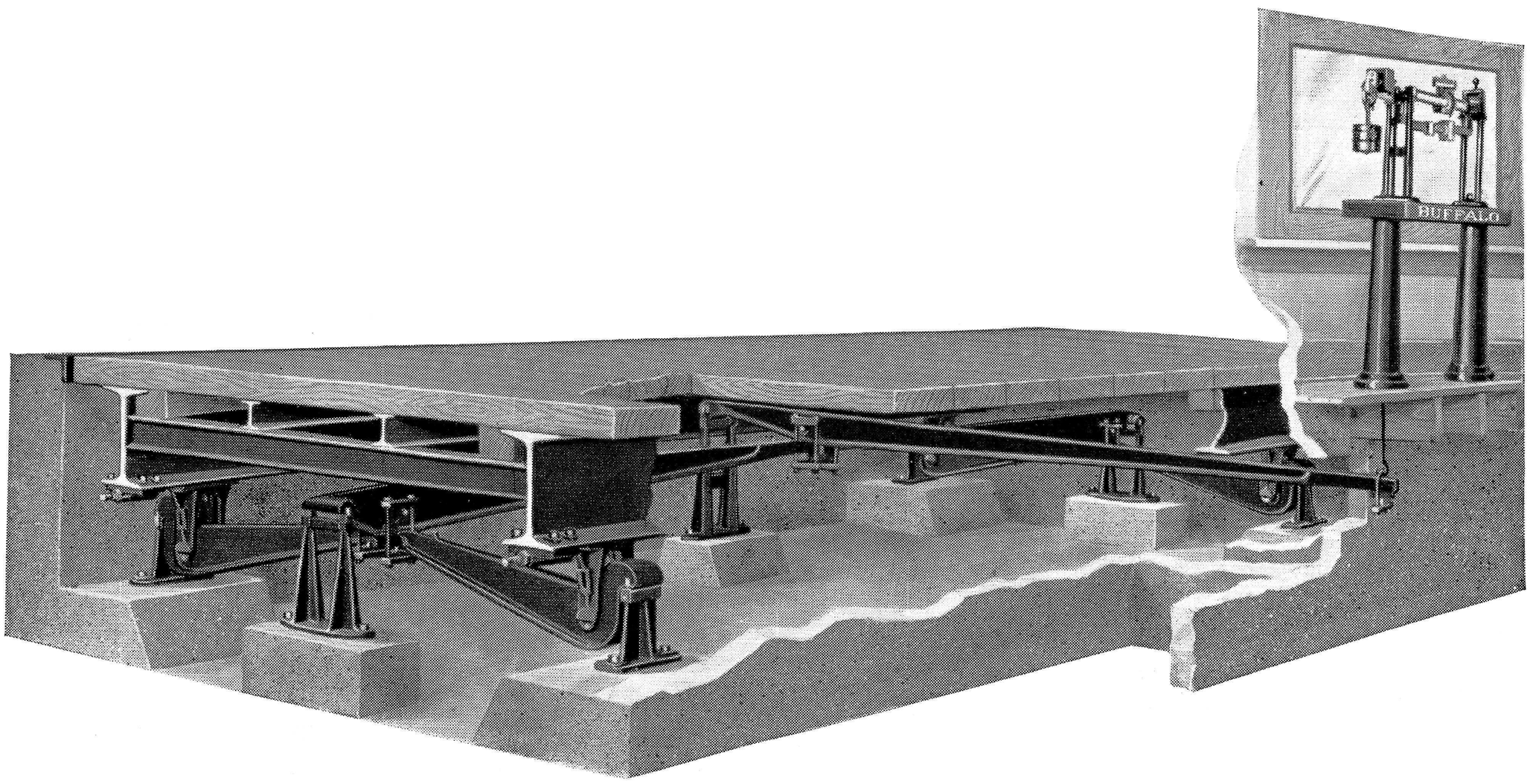
Scale No.	Cap. Tons	Platform Size	Edge of Plat. to Beam Rod	Wt. of Scale	Wt. of Steel Wood	Wt. of Steel Concr.	List Scale
3200	10	18′ x 9′	4′-0″	1800 lbs.	1600 lbs.	2450 lbs.	$ 445.00
3201	10	22′ x 9′	4′-0″	2000 lbs.	2000 lbs.	3250 lbs.	465.00
3202	10	30′ x 9′	4′-0″	2500 lbs.	2900 lbs.	4600 lbs.	505.00
3203	10	34′ x 9′	4′-0″	2700 lbs.	3600 lbs.	5500 lbs.	525.00
3204	15	18′ x 9′	4′-6″	2300 lbs.	1900 lbs.	2700 lbs.	520.00
3205	15	22′ x 9′	4′-6″	2500 lbs.	2300 lbs.	3600 lbs.	540.00
3206	15	30′ x 9′	4′-6″	2900 lbs.	3600 lbs.	5150 lbs.	580.00
3207	15	34′ x 9′	4′-6″	3100 lbs.	4500 lbs.	6000 lbs.	600.00
3208	20	20′ x 9′	4′-6″	2500 lbs.	2400 lbs.	3550 lbs.	625.00
3209	20	24′ x 9′	4′-6″	2700 lbs.	3050 lbs.	4500 lbs.	675.00
3210	20	28′ x 9′	4′-6″	3000 lbs.	3800 lbs.	5300 lbs.	725.00
3211	20	34′ x 9′	4′-6″	3300 lbs.	5050 lbs.	7100 lbs.	800.00
3212	20	20′ x 10′	4′-6″	2600 lbs.	2450 lbs.	3700 lbs.	675.00
3213	20	24′ x 10′	4′-6″	2800 lbs.	3100 lbs.	4600 lbs.	725.00
3214	20	28′ x 10′	4′-6″	3100 lbs.	3900 lbs.	5500 lbs.	775.00
3215	20	34′ x 10′	4′-6″	3400 lbs.	5150 lbs.	7300 lbs.	850.00
3216	30	24′ x 10′	4′-6″	4000 lbs.	4700 lbs.	5300 lbs.	875.00
3217	30	28′ x 10′	4′-6″	4300 lbs.	5700 lbs.	6350 lbs.	925.00
3218	30	34′ x 10′	4′-6″	4800 lbs.	7450 lbs.	8500 lbs.	1075.00
3219	30	40′ x 10′	4′-6″	5200 lbs.	9150 lbs.	10,500 lbs.	1200.00

BUFFALO A. R. E. A. MOTOR TRUCK SCALES

Scale No.	Cap. Tons	Platform Size	Edge of Plat. to Beam Rod	Wt. of Scale	Wt. of Steel Wood	Wt. of Steel Concr.	List Scale
3260	18	18′ x 9′	4′-6″	3000 lbs.	3441 lbs.	3839 lbs.	$ 750.00
3261	30	20′ x 9′	4′-6″	3100 lbs.	4239 lbs.	4303 lbs.	825.00
3262	30	20′ x 10′	4′-6″	3200 lbs.	4334 lbs.	4765 lbs.	875.00
3263	30	24′ x 9′	4′-6″	3900 lbs.	5378 lbs.	5714 lbs.	875.00
3264	30	24′ x 10′	4′-6″	4000 lbs.	5662 lbs.	5924 lbs.	925.00
3265	30	28′ x 10′	4′-6″	4900 lbs.	7227 lbs.	7696 lbs.	1075.00
3266	30	34′ x 10′	4′-6″	5600 lbs.	9770 lbs.	10,375 lbs.	1225.00
3267	35	28′ x 10′	4′-6″	4900 lbs.	7227 lbs.	7696 lbs.	1200.00
3268	35	34′ x 10′	4′-6″	5600 lbs.	9770 lbs.	10,375 lbs.	1350.00
3269	35	40′ x 10′	4′-6″	6000 lbs.	12,226 lbs.	13,246 lbs.	1500.00

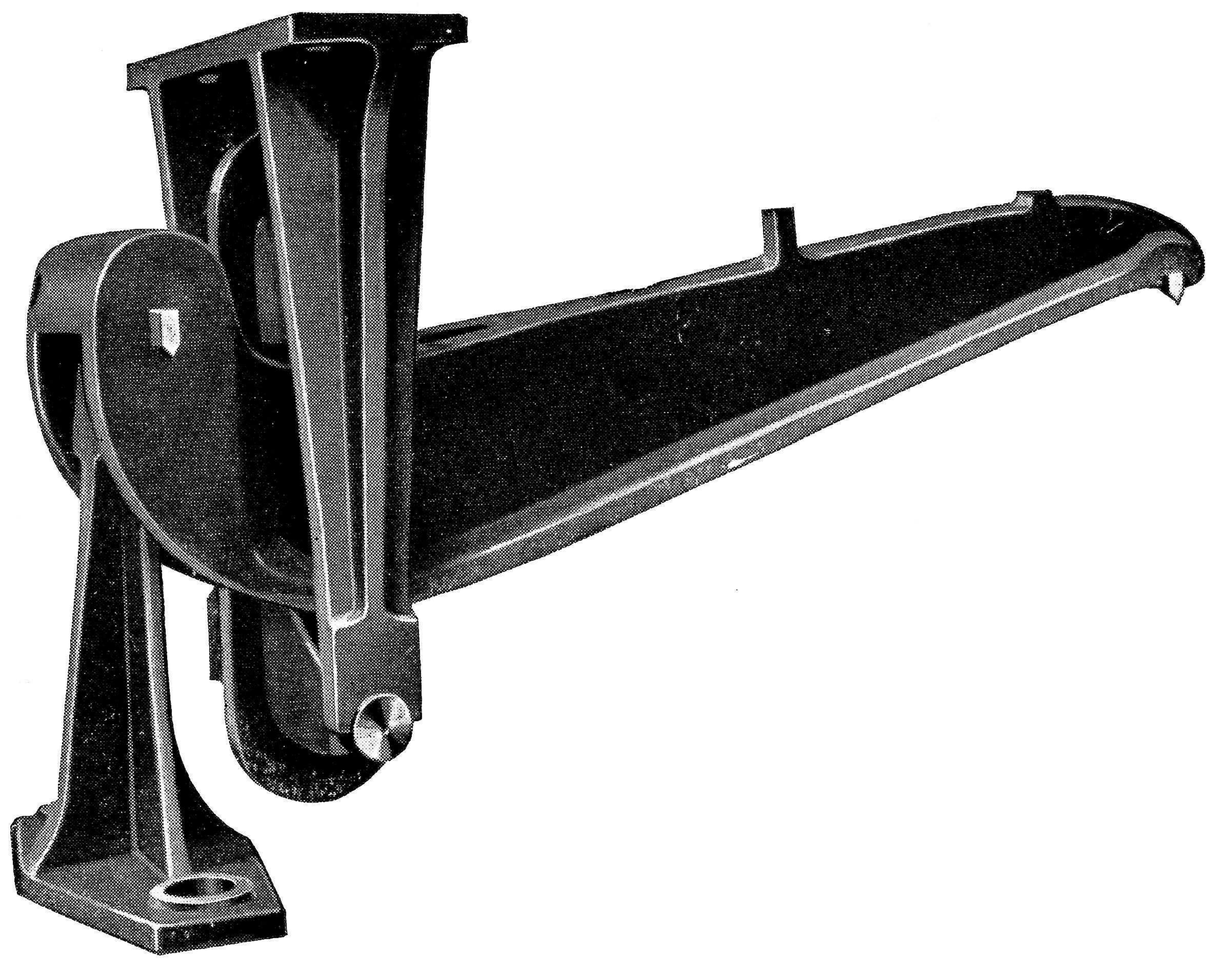
THE WORLD'S STANDARD FOR THREE QUARTERS OF A CENTURY

Single Link Suspension Bearing Motor Truck Scales



Buffalo Standard Motor Truck Scale

The Buffalo Suspension Bearing

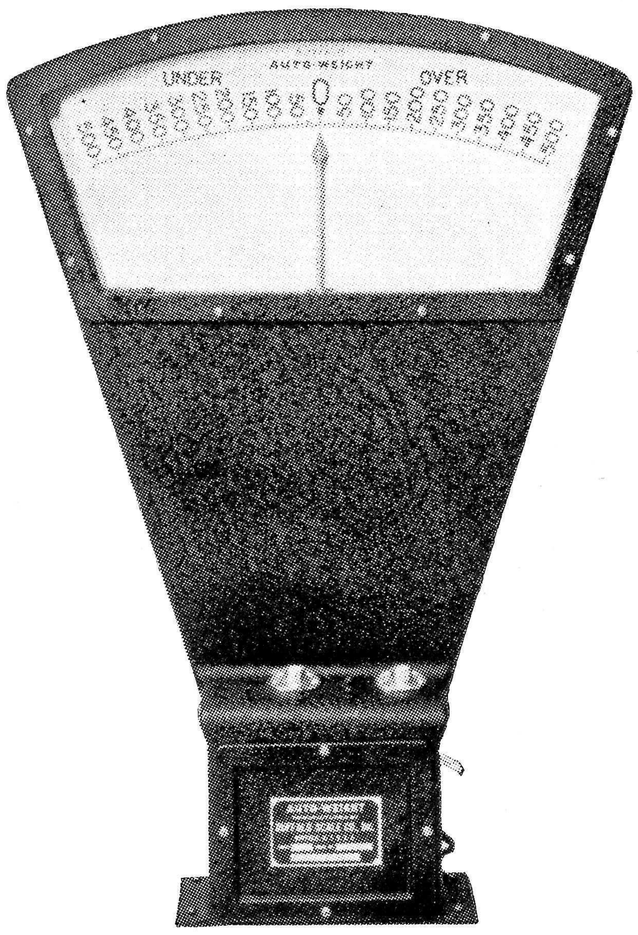


The BUFFALO Single Link design of suspension bearing has the highest mechanical efficiency of any suspension bearing in use today. The important advantages of the single link principle are—simplicity minimum friction, maximum freedom of motion, minimum wear and long life.

The main lever assembly consists of six parts only, and this simplicity of construction is a great aid to the scale inspector for erection and regular inspections.

Under equal maintenance conditions, the BUFFALO Single Link Suspension Bearing Scales, will give accurate results for a longer length of time than any other suspension bearing design.

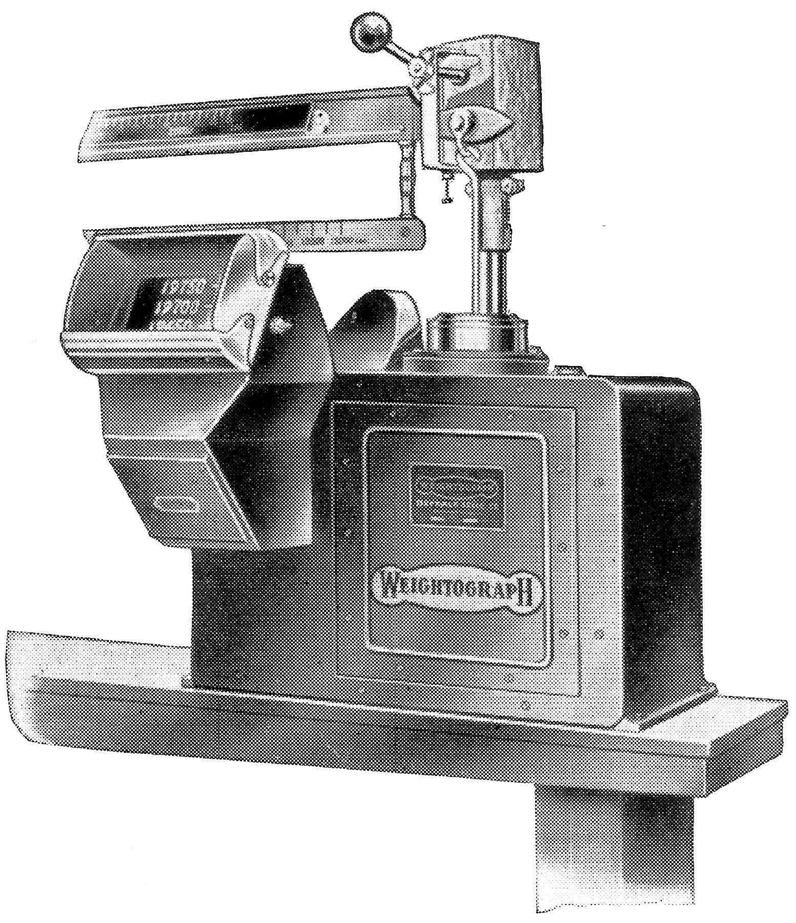
Automatic Equipment For Motor Truck Scales



Full Capacity Dial

For the user who prefers a completely automatic scale, the BUFFALO full capacity dial offers the best equipment procurable. The same simplicity and strength of construction which has always distinguished BUFFALO scales has been followed in the design of our dial line. The number of working parts has been reduced to a minimum, insuring a permanently accurate mechanism—No adjustment to this indicating mechanism is ever necessary.

Unusual care is taken in the finish of the dial cabinet to make its appearance an asset in any office.

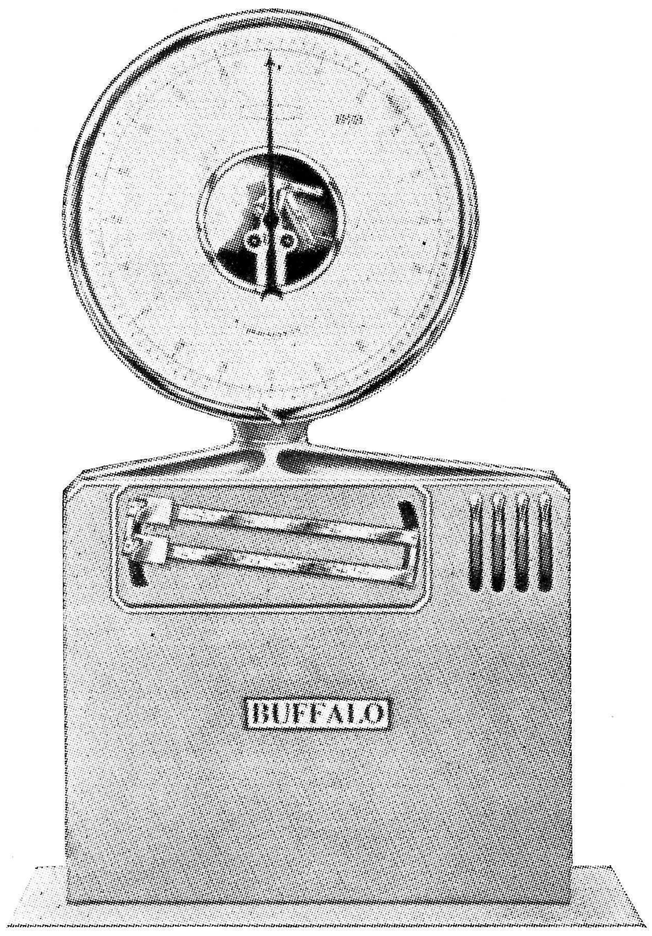


Buffalo Auto-Weight

The BUFFALO Auto-Weight when attached to a full capacity beam, provides the ideal weighing equipment for loads which are "trimmed" to exact weight. It can be attached to any Motor Truck or Wagon Scale of the beam type now in service.

The "over" or "under" desired weight can be read from front or back of the Auto-Weight, enabling the man on the truck to trim his load to exact tonnage without a word from the weighman.

The Auto-Weight gives a constant visible check on the balance of your scale, speeds up weighing and reduces errors in weight reading.

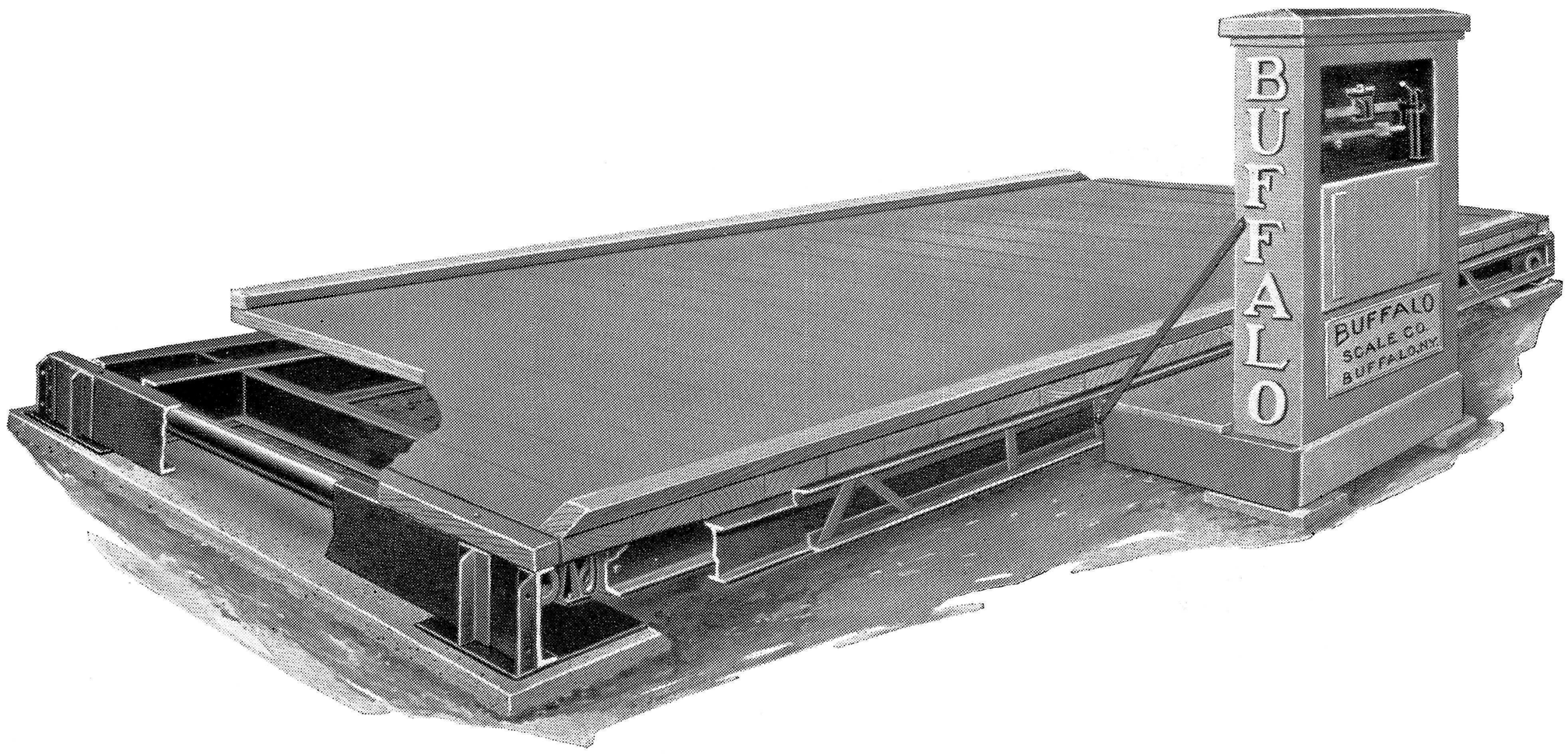


Buffalo Weightograph

The BUFFALO Weightograph offers an opportunity for any beam scale user to convert his present scale to a fully automatic one at a most reasonable price. The Weightograph can be attached to any make of beam scale that is in good weighing condition.

Many users choose the Weightograph for new equipment. The large, clear chart is easily read and with the weight projected on a glass screen, no parallax is possible in reading weights. The single bearing mechanism insures trouble free operation and low maintenance.

Pitless Motor Truck Scales



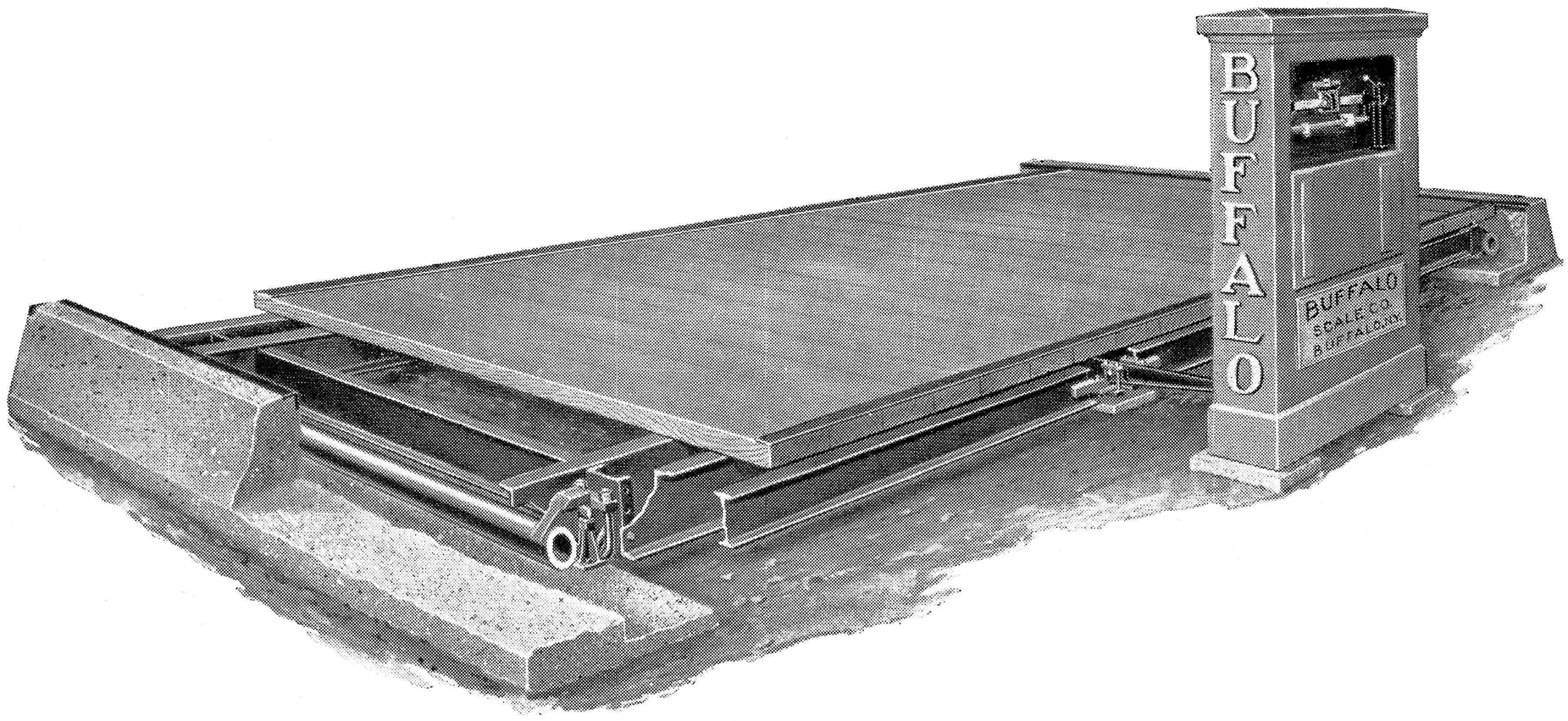
BUFFALO Pitless Motor Truck Scales are designed to meet the need of the contractor, small quarry operator and others, who require a self contained scale that must be moved from one location to another. No foundation is necessary.

The scale mechanism is completely self-contained in a heavy structural steel frame, eliminating the necessity of any concrete work or outside bracing. For accurate weighing the scale should be set up on firm level ground. If conditions do not permit this, it is advisable to place heavy timbers or concrete blocks under the ends of the scale to keep it from settling under load.

The scale has suspension bearings and is designed and manufactured throughout in keeping with the BUFFALO standard of workmanship. All structural steel necessary comes with the scale. Purchaser supplies the timber for the platform. These scales come equipped with full capacity compound beam requiring no loose weights. Either a weatherproof beam box or short iron pillars and steel shelf for where beam is to be located inside an office will be furnished at the customers option.

No.	Capacity	Platform Size	Shipping Weight	List Price
3843	15 Ton	18′ x 9′	4600 lbs.	$ 850.00
3844	15 Ton	22′ x 9′	5300 lbs.	1000.00
3845	20 Ton	20′ x 9′	5400 lbs.	1300.00
3846	20 Ton	22′ x 9′	5700 lbs.	1400.00

Suspension Bearing Shallow Pattern Motor Truck Scales



This type of truck scale has been brought out to meet the demands of road contractors and others, who from time to time may wish to move their scales. It is of sturdy, but simple construction and is economical to install. No pit is necessary.

The piers and two end walls require but little concrete and the form work is simple.

The high standard of workmanship for which **BUFFALO** Scales are noted is carried out in this line of scales also.

The pipe levers are made from an alloy iron which is twice the strength of ordinary cast iron.

The single link suspension bearing is similar to that used by the **BUFFALO SCALE COMPANY, INC.**, in railroad track scales. They prevent any shifting or displacement of the lever system under shock and so prevent change in beam balance.

A handsomely finished, full capacity, compound beam is furnished. It has a 4-point suspension roller poise with latch pawl. No loose weights are required. The notches are all sealed and tested.

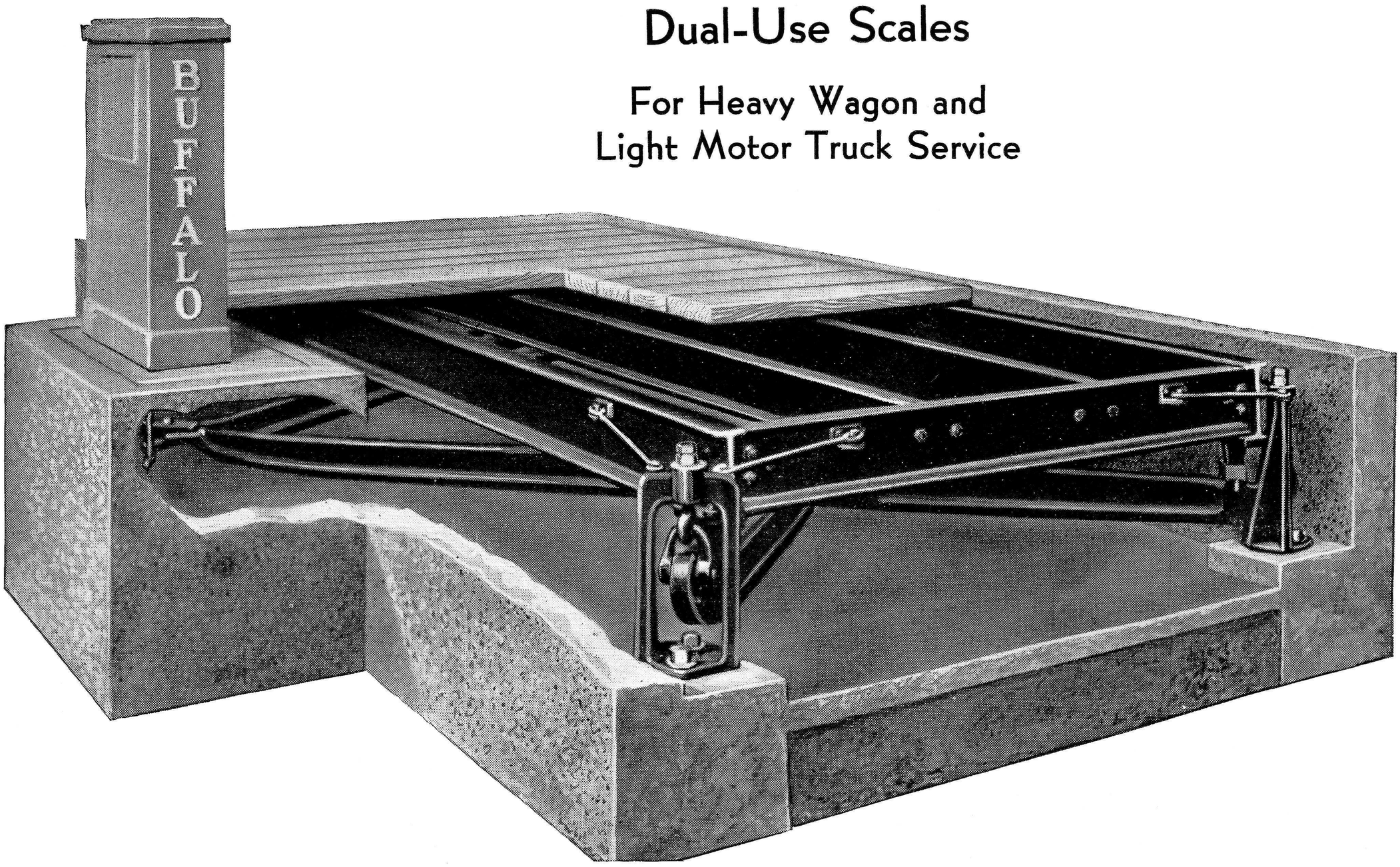
The beam box is constructed of matched pine with heavy frame work. It is painted two coats of best lead and oil and nicely lettered. Short iron pillars and shelf will be furnished if preferred.

Structural steel is not included in list price of scale. Concrete work and platform planking are furnished by the purchaser.

No.	Rated Capacity	Platform Size	Edge of Platform to Beam Rod	Weight of Scale	Weight of Steel	List Price
3810	15 tons	22′ x 9′	3 ft.	2025 lbs.	2300 lbs.	$540.00
3812	15 tons	30′ x 9′	3 ft.	2350 lbs.	3700 lbs.	580.00
3814	15 tons	34′ x 9′	3 ft.	2500 lbs.	4100 lbs.	600.00

Dual-Use Scales

For Heavy Wagon and Light Motor Truck Service



In the early days wagon scales were made with either pipe levers or trussed levers. We ourselves still make pipe lever scales and they do give satisfaction; but there is no doubt that the best construction is the one piece cast iron straight lever as used in Buffalo Railroad Track Scales, Motor Truck Scales and Heavy Hopper Scales. The superiority of this design will be apparent to anyone who will read the Bureau of Standards' Circular No. 199.

Buffalo Shallow Pit Wagon Scales follow this design in every essential detail. They are hung from corner stands like motor truck scales, and are heavily framed with steel to prevent distortion and disalignment under the grinding stresses of hard, constant service.

While these scales are designed primarily for heavy wagon service, they are also giving splendid satisfaction for light motor truck weighing, and are sold for 60% of their wagon rating for motor truck service.

The variance between the motor truck and wagon load ratings can be understood easily when it is remembered that a wagon carries 50% of its load on each axle, whereas a motor truck carries as high as 95% of the weight on its rear axle. Thus, if a 20,000 pound wagon scale is built to function with half of its load on each half of the scale, it will handle effectively a motor truck load equivalent or slightly in excess of one-half the full rating, or in the case of the 20,000 pound scale, 12,000 pounds in weight.

Buffalo Wagon Scales are warranted for 60% of their wagon rating for weighing motor truck loads; and there are many users of light trucks where the gross load does not exceed 12,000 pounds who find our 20,000 pound Wagon Scale an unbeatably economical and satisfactory answer to their weighing problems.

Standard equipment includes a full capacity compound beam of attractive appearance and choice of short iron pillars and shelf for use in an office, or a weatherproof beam box for outside installation.

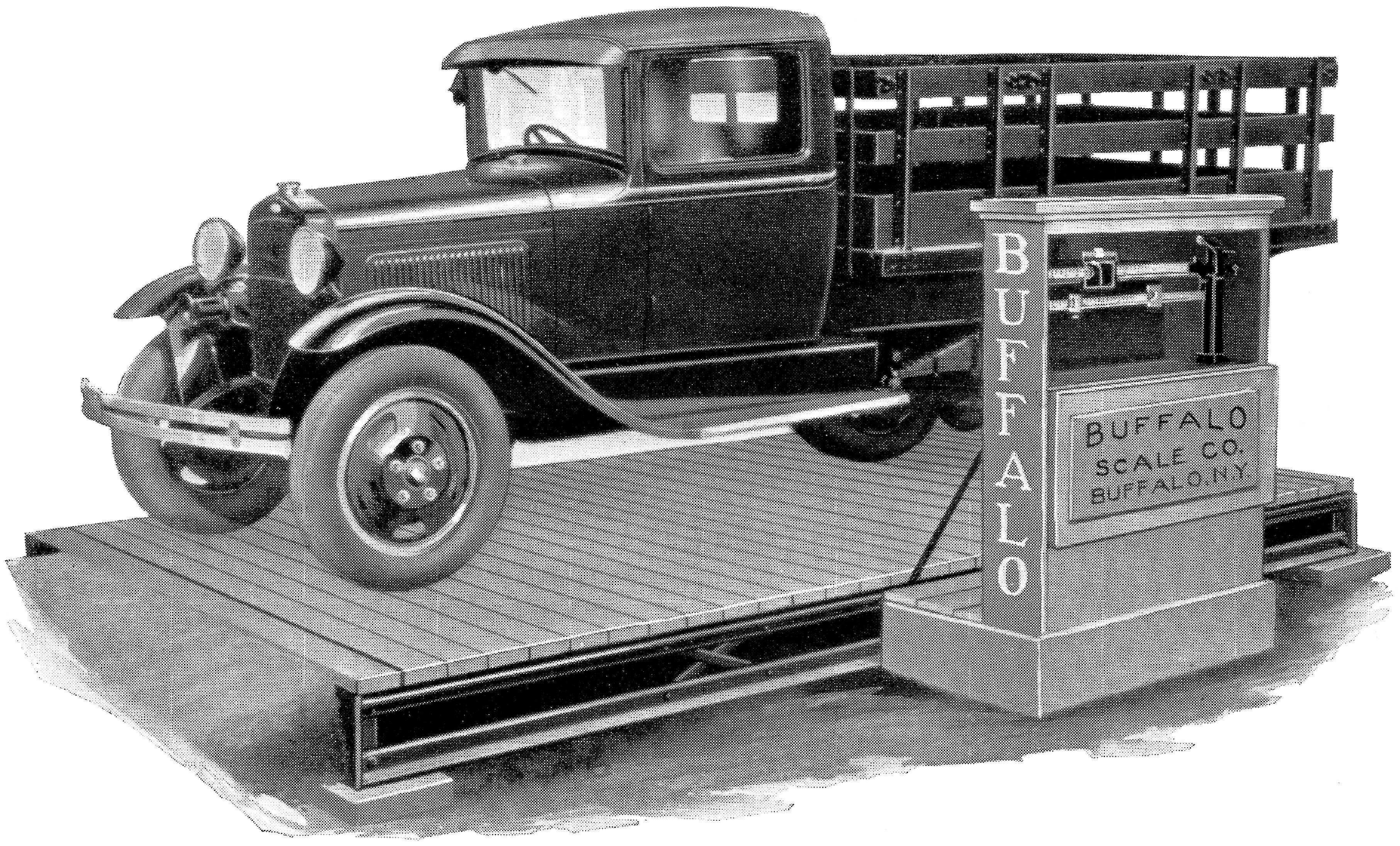
Structural steel is not included in the list price of scale, but can be furnished by the factory. Timber and foundation are furnished by the purchaser.

A type recording beam can be furnished at a nominal additional charge.

Weighing Capacity of Buffalo Wagon Scales

No.	Capacity for Wagon Service	Capacity for Motor Trucks	Platform Size	Weight of Scale	Weight of Steel	List Price
2206	10,000 lbs.	6,000 lbs.	15′ x 8′	1100 lbs.	1010 lbs.	$250.00
2222	20,000 lbs.	12,000 lbs.	16′ x 8′	1600 lbs.	1480 lbs.	275.00
2223	20,000 lbs.	12,000 lbs.	18′ x 8′	1850 lbs.	1750 lbs.	280.00
2225	20,000 lbs.	12,000 lbs.	22′ x 8′	1900 lbs.	2200 lbs.	290.00

Pitless Wagon Scales



For Wagon and Light Truck Duty

We have brought out this scale to meet the demand for a thoroughly reliable Steel Frame Pitless Scale, suitable for farm and ranch; cotton gins and merchants who want a scale for weighing wagons and the smaller type motor truck loads, and would have no use for a heavy duty scale.

Do not get the idea that this scale is of light flimsy construction, for it is not. In proof, we ask you to compare its shipping weight with any other similar scale. You will find in most cases it is heavier, but it is not intended for heavy motor truck service. For that we have truck scale models. Purchaser to supply the supporting piers and timber covering for the scale platform and offset.

Weigh Beam, full capacity standard compound. It is a beautiful beam in appearance, is designed for extreme accuracy and convenience. It requires no loose weights for weighing and is easily and quickly read.

Beam Box is well constructed of fir ceiling over a heavy two-inch frame. Painted two coats of the best lead and oil paint. This beam box, which is the best for outside use, is always furnished unless otherwise specified.

Available in Three Sizes

Cat. No.	Capacity	Platform Size	Shipping Weight
214	5-ton	8′ x 14′	1,300 lbs.
216	10-ton	8′ x 16′	2,380 lbs.
222	10-ton	8′ x 22′	3,650 lbs.

Railroad Track Scales



The BUFFALO Suspension Bearing Track Scale appeals at once to either the Engineer or the Layman, because of its big, sturdy, well designed parts that are easy to assemble, easy to inspect and maintain. THE BUFFALO SCALE COMPANY, has had seventy-nine (79) years of experience in building heavy scales. Track Scales of this basic design were placed upon the market in 1912. Prospective buyers will be given the names of early users whose scales have had approximately twenty-eight (28) years of service and they will also be referred to the more recent purchasers, many of whom, however, are the same companies whose experience has caused them to place repeat orders.

We are justified in claiming that in the BUFFALO Suspension Bearing Track Scale, we have produced a weighing machine which for accuracy, durability and general efficiency has not as yet been equalled by any other scale on the market.

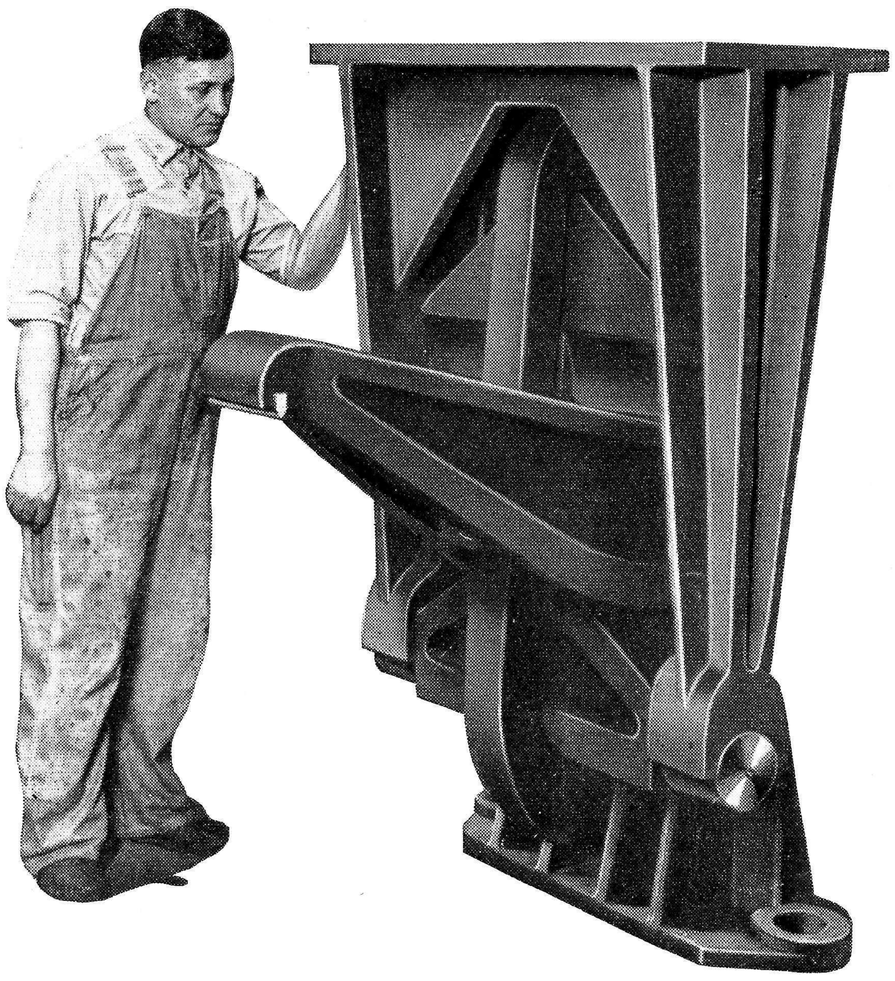
In considering the installation of a Railroad Track Scale, the size of the maximum load which will be weighed will govern the capacity. The maximum wheelbase of cars will govern the length of the weigh rails.

In choosing a location for a scale, a straight track is necessary and there should be a car length of straight track at each end of the scale. Drainage for the pit is important. BUFFALO Railroad Track Scales are built to meet the Specifications of the American Railway Engineering Association and the Bureau of Standards Specifications. They are in use by many of the largest Railroads, Mines, Steel Mills and Manufacturing Plants and others requiring the highest grade of heavy weighing machines. Complicated construction and small frail parts prove fatal in a heavy track scale mechanism. That is why BUFFALO Track Scales have been designed without them.

Simple Trouble-Free Construction

Each BUFFALO Main Lever assembly consists essentially of six sturdy parts. This remarkably simple construction, each part a complete substantial, well made unit, means quick, easy assembly and a great elimination of wear. The elimination of complicated accessory parts, makes it nearly impossible for a BUFFALO Scale, once properly installed, to get out of order. This construction insures reduced maintenance cost and freedom from trouble.

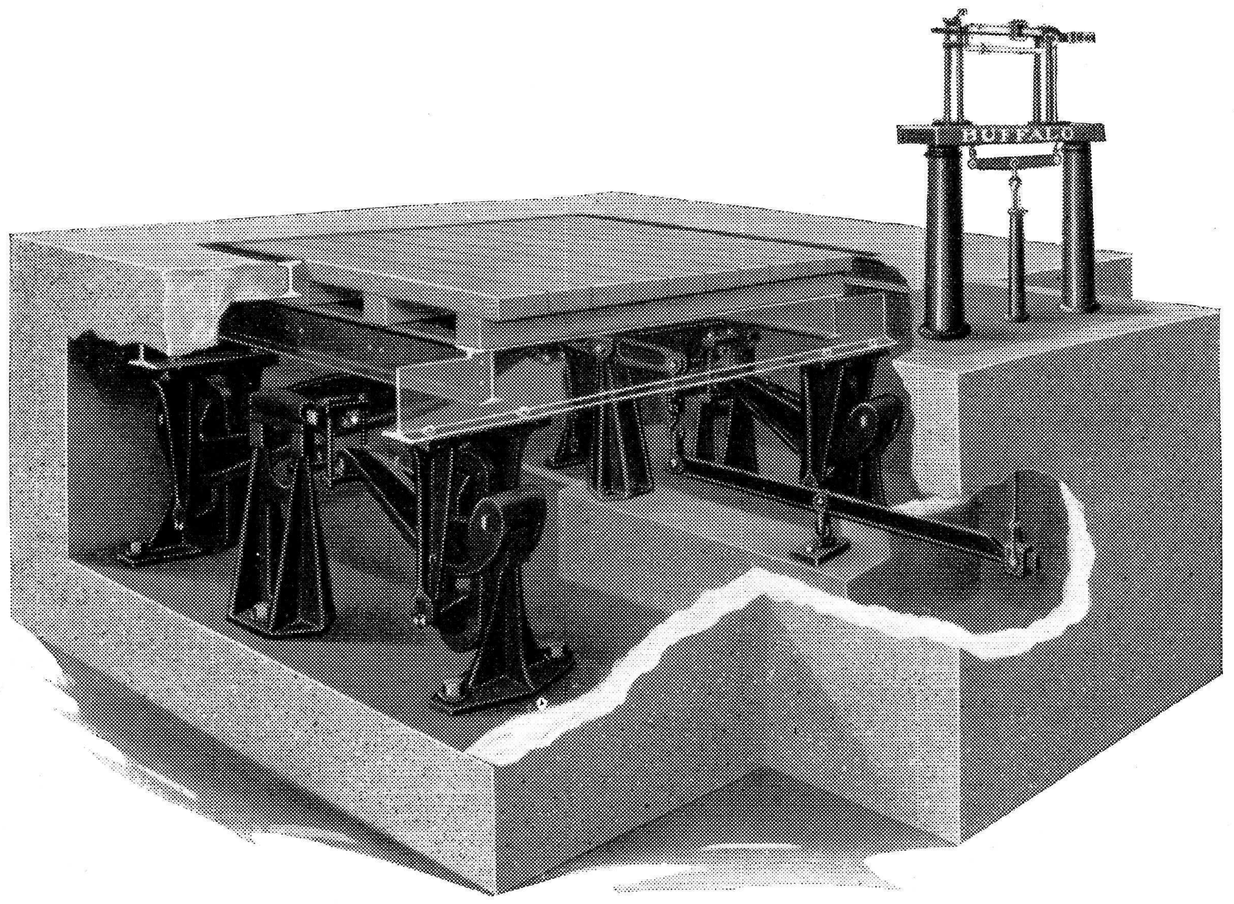
The arrangement is such that the platform may oscillate freely under the impact of the load or sudden shock, but this motion even when unduly severe, is not transmitted to the scale mechanism. The load is transmitted through the heavy yoke and bridge bar to a long cast steel link, which in turn transmits it to the main lever, which is stationary. This arrangement with its slow pendulum-like oscillations practically absorbs all motion and therefore reduces wear to a minimum.



Two Section Truck Scales

Heavy industry demands sturdy scales, BUFFALO two-section track scales are meeting this demand—meeting it in the steel mill, in the coal mine in all types of heavy industrial service. A complete line of lever systems enables us to build these scales in any capacity from 10-tons to 300 tons and in any length or width required.

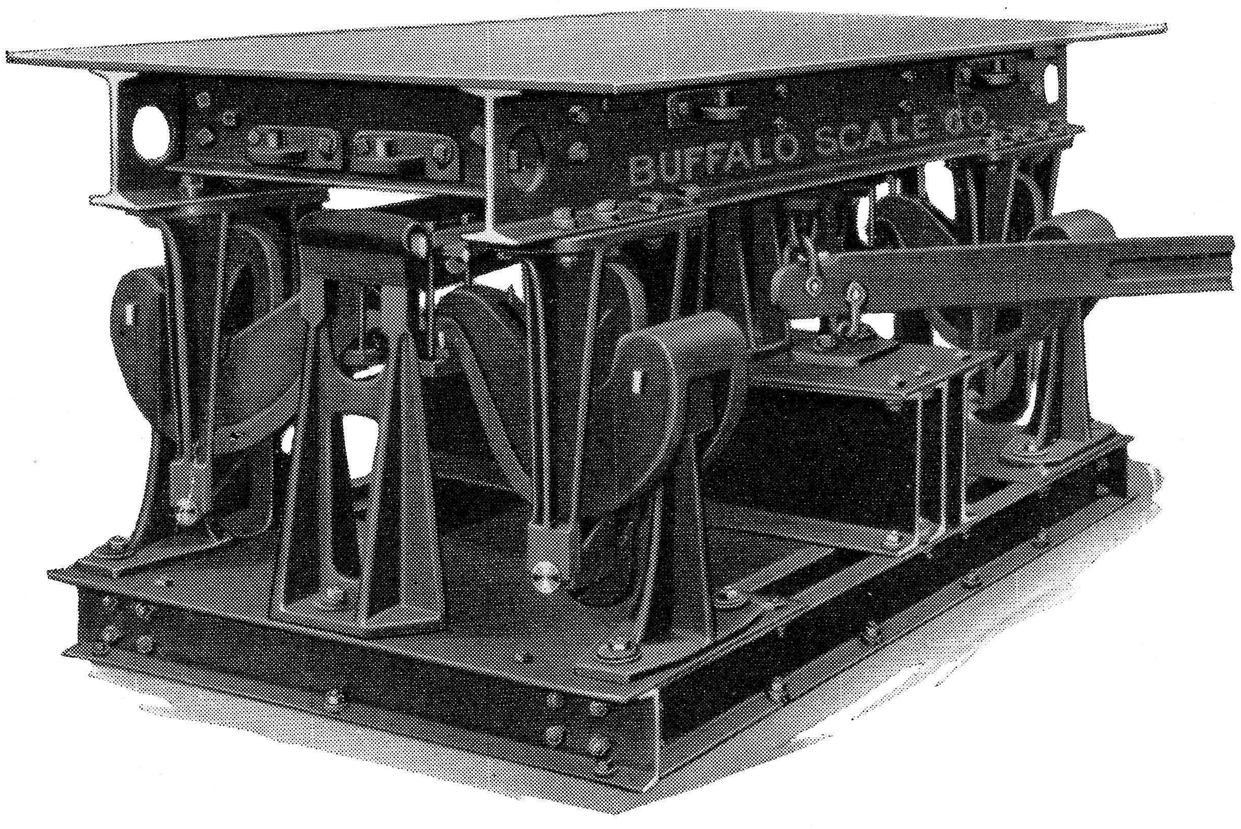
The basic design of all of these scales is the same—BUFFALO Single Link Suspension Bearings at the four corners of the scale. For strength and accuracy in a track scale this design remains unparalleled.



Construction details are varied to meet varied requirements. Most scales are installed in foundations similar to the scale in the upper illustration. Decks can be of the floating or rigid type, edges of the foundation can be bridged to extend over the scale to prevent any tipping tendency from concentrated loads. Beams can be located at the center or end of the scale.

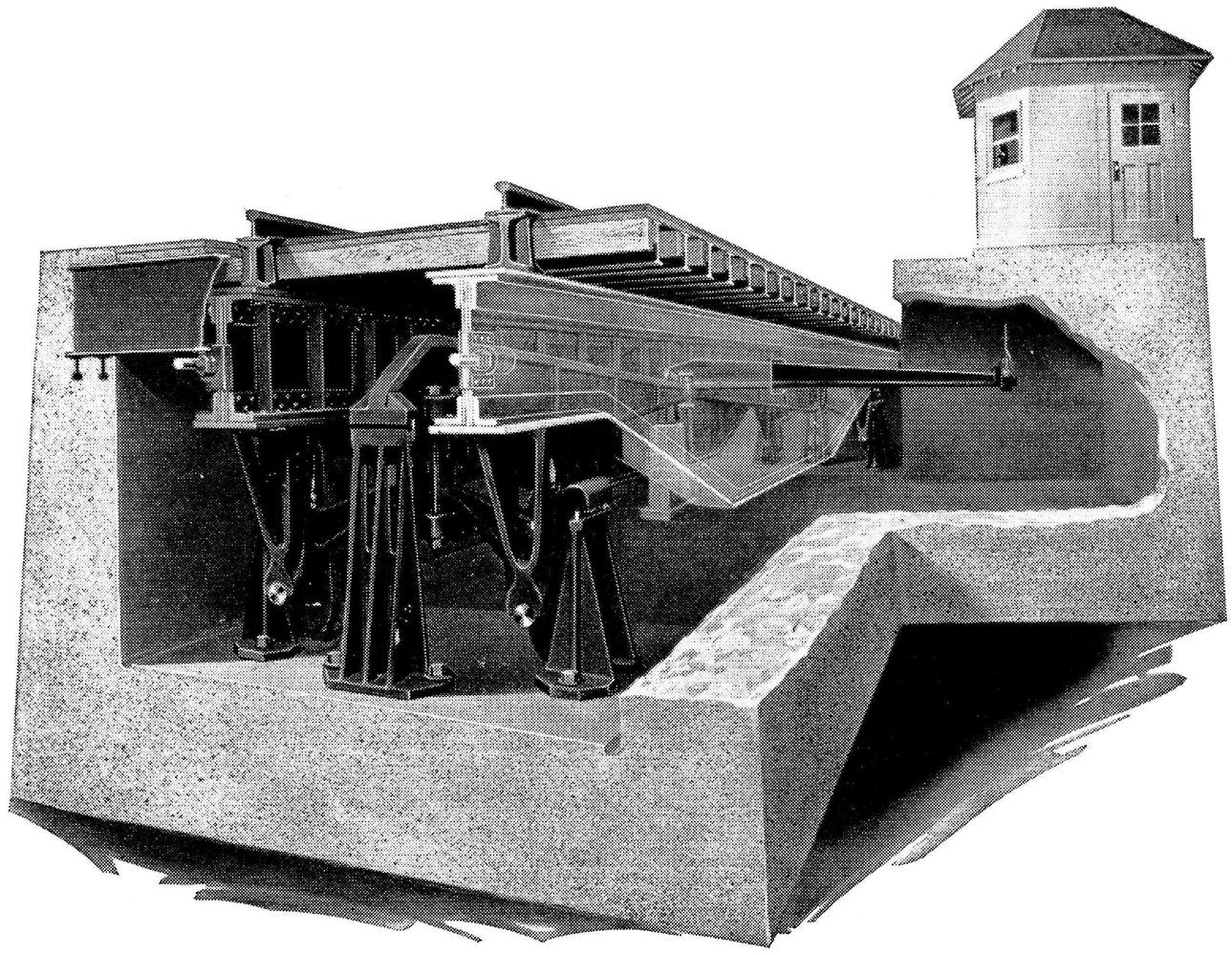
In the lower illustration is a special 10-ton self-contained Plate Shear Scale. It is designed so that it can be handled by an overhead crane to be moved from one location to another.

Regardless of whether you wish to weigh electric trucks in an industrial plant, coupled cars on a coal tipple or a 200 ton ladle car in a steel mill, the BUFFALO SCALE COMPANY stands ready to furnish you with a two section track scale especially designed for your own particular needs.



No.	Capacity per Section	Rail Length	Maximum Beam Capacity
3603	10-tons	20′ or less	30,000
3609	15-tons	25′ or less	40,000
3600	20-tons	30′ or less	60,000
3606	30-tons	30′ or less	100,000
3617	50-tons	40′ or less	180,000
3619	60-tons	50′ or less	200,000
3620	75-tons Lgt.	50′ or less	250,000
3624	75-tons Hvy.	50′ or less	250,000
3634	100-tons	60′ or less	335,000
3645	150-tons	60′ or less	400,000
3675	200-tons	75′ or less	600,000

Two Section Railroad Track Scales



Requirements in industrial and railroad equipment change. Methods and machinery that met yesterday's needs are constantly being improved to better fit the demands of today.

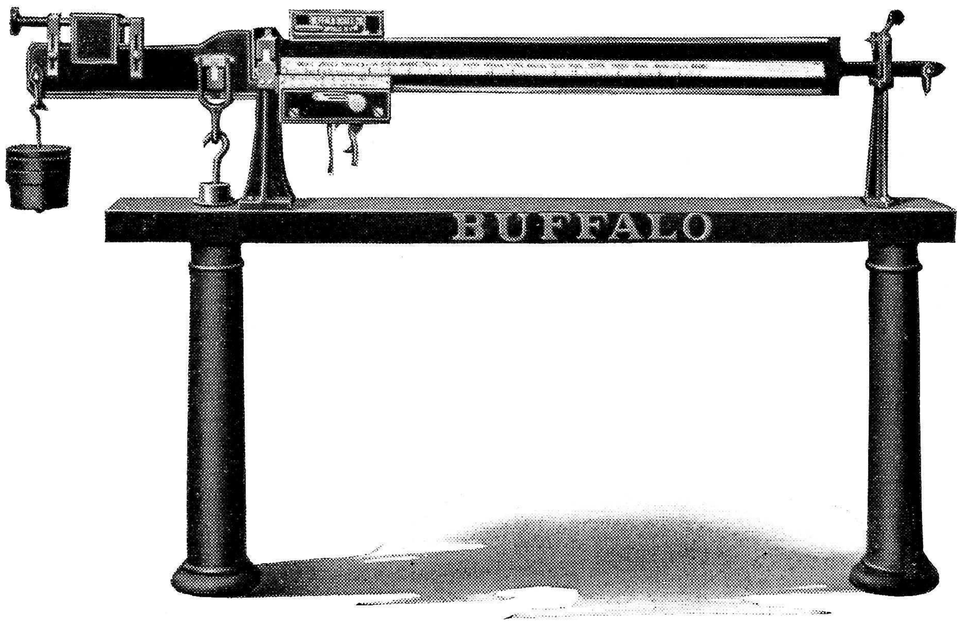
The BUFFALO 2-section Track Scale is in accord with that process of advancement. It offers railroads and industries the last word in carload weighing equipment. In it are embodied all the various features, which factor in the precision and durability of the BUFFALO 4-section Track Scale. In addition, it possesses the added advantages of greater simplicity, interchangeable pivots—the most outstanding accomplishment of modern track scale construction—and elimination of the "dead rail." All these factors contribute to reduced operating costs and ease of maintenance—two points of great importance to every railroad or industrial executive.

The BUFFALO 2-section Track Scale conforms in every particular with the latest specifications of the American Railway Engineers Association and the U. S. Bureau of Standards. This scale appeals particularly to the alert and progressive engineer, who looks ahead in the selection of machinery and equipment. That type of mind will respond to the visible advantages of this great weighing machine.

BUFFALO Single Link, Center Connected, Suspension Bearings are used in the construction of the main lever units—one of these units from a BUFFALO 200-ton per section being illustrated on page J-1.

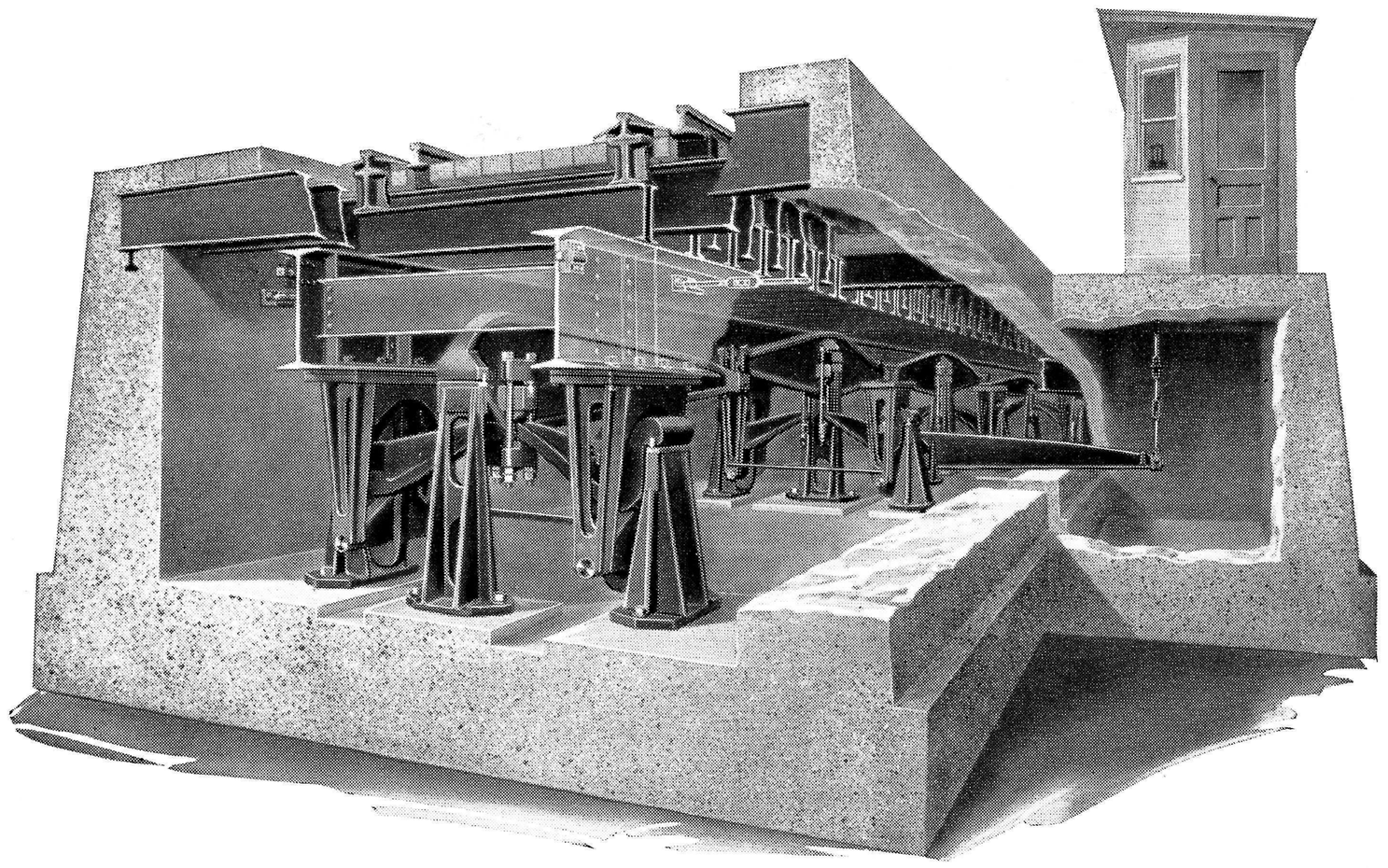
Standard A. R. E. A. Scales are manufactured in two sectional capacities—150-tons per section, equipped with 150-ton recording beams and an additional 75-ton non-recording bottle weight and 200-tons per section, equipped with 167½-ton recording beams and additional 100-ton bottle weight.

Send for our illustrated twelve page booklet, giving a de tailed description of these scales.



No.	Capacity Per Section In Tons	Rail Length	Recording Beam Capacity	Additional Bottle Weight Capacity
3652	150	50 ft.	150-tons	75-tons
3654	150	60 ft.	150-tons	75-tons
3684	200	60 ft.	167½-tons	100-tons
3686	200	75 ft.	167½-tons	100-tons

Four Section Railroad Track Scales



BUFFALO four-section railroad track scales embody the well-known Buffalo Single Link Suspension Bearing features which have given such remarkable service and proved their wonderful endurance under the most extreme service conditions.

The fact that BUFFALO Heavy Duty Scales have given such perfect service over long periods of time without care or attention, other than proper packing with grease and occasional inspection, is conclusive evidence that these scales are designed correctly.

All bearings are in perfect alignment both horizontally and vertically. There are no complicated parts. All pivots are in plain sight. The long easy swinging links not only take up severe shocks and loads but adjust themselves instantly to all conditions.

BUFFALO Scales are constructed with the greatest attention to perfect workmanship by men who have had years of experience in scale building. This and the fact that they have proved their dependability, has made these scales the first choice among the largest railroads and industrial plants in all parts of the United States.

Beams are regularly furnished in accordance with latest revised Railroad Track Scale Specifications.

Short iron pillars and steel beam shelf are included in regular list prices.

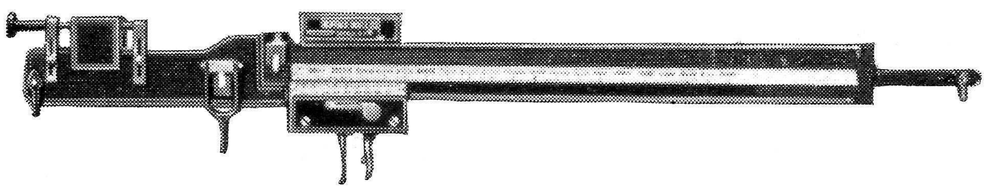
Scales of 60-ton or greater sectional capacity are equipped with cast steel main levers and interchangeable type pivots.

No.	Capacity Per Section In Tons	Rail Length	Maximum Beam Capacity
3011	60	50′ or less	120-Tons
3008	45	50′ or less	100-Tons
3004	30	50′ or less	100-Tons
3002	20	50′ or less	50-Tons
3000	10	50′ or less	20-Tons

No.	Sectional Capacity	Maximum Beam Capacity	Rail Lengths	Pit Lengths
3007	50-tons	100-tons	46′	50′
3009	50-tons	100-tons	50′	56′
3010	60-tons	120-tons	50′	56′
3012	60-tons	120-tons	56′	62′
3014	60-tons	120-tons	60′	66′
3020	75-tons	150-tons	50′	56′
3022	75-tons	150-tons	56′	62′
3023	75-tons	150-tons	60′	66′
3050	75-tons	150-tons	50′	56′
3052	75-tons	150-tons	56′	62′
3054	75-tons	150-tons	60′	66′
3080	100-tons	200-tons	50′	56′
3082	100-tons	200-tons	56′	62′
3084	100-tons	200-tons	60′	67′
3085	100-tons	200-tons	66′	74′
3086	100-tons	200-tons	72′	80′
3092	150-tons	300-tons	60′	68′
3094	150-tons	300-tons	66′	74′
3095	150-tons	300-tons	72′	80′
3096	150-tons	300-tons	76′	84′
3112	200-tons	400-tons	60′	68′
3114	200-tons	400-tons	72′	80′
3116	200-tons	400-tons	76′	84′
3118	200-tons	400-tons	80′	88′
3120	200-tons	400-tons	90′	98′
3122	200-tons	400-tons	100′	108′
3124	200-tons	400-tons	110′	118′

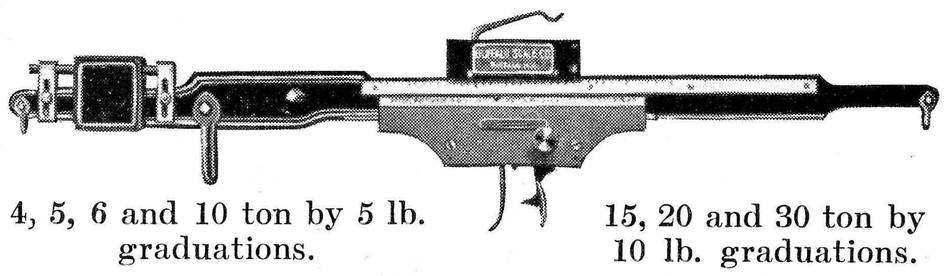
Beam Equipment

Recording Beam for Railroad Scale



50 to 167½ tons by 20 lb. graduations.

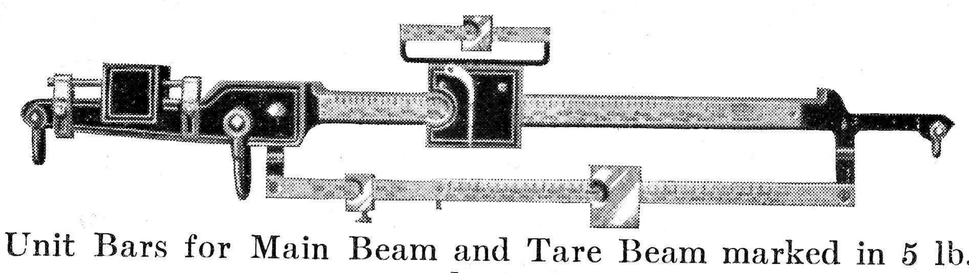
Recording Beam for Motor Truck, Wagon, Miner and Depot Scales



4, 5, 6 and 10 ton by 5 lb. graduations.

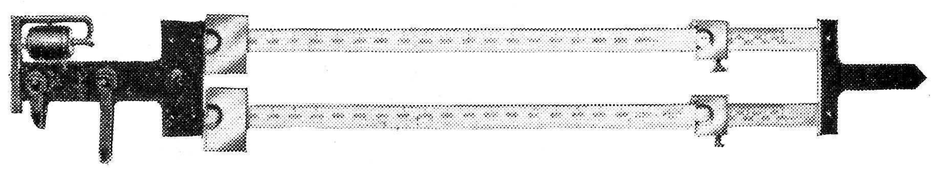
15, 20 and 30 ton by 10 lb. graduations.

Compound Beam for Motor Truck Scale



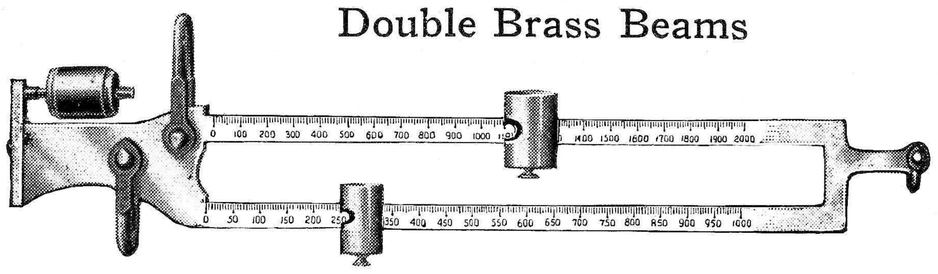
Unit Bars for Main Beam and Tare Beam marked in 5 lb. graduations.

Compound Beam for Wagon, and Pitless Scales



5 and 10 ton beams marked in 5 lb. graduations.

Double Brass Beams



For miner and depot scales
Marked in 2½ lb. graduations.

Upper bar 2,000 x 5 lbs.
Lower bar 1,000 x 2½ lbs.

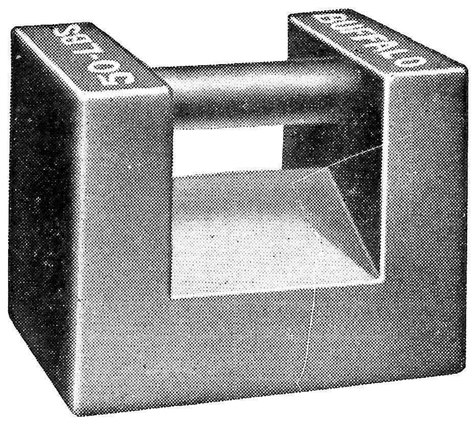
Type Recording Beams

"A" to be added to regular list price of Scale.
"B" list price when sold separately.

Railroad Track Scales	A	B
20 to 100 Ton	$150.00	$300.00
125 to 150 Ton	200.00	420.00
167 to 200 Ton	250.00	480.00
Double Slide Recording Beams		
Extra List Over Single Recording Beams to 15 Tons, inclusive	55.00	
20 to 100 Tons	100.00	
125 to 200 Tons	150.00	
250 Tons	200.00	1,000.00
300 Tons	250.00	1,050.00
350 Tons	300.00	1,100.00
400 Tons	350.00	1,150.00
Motor Truck Scales		
10 Ton	100.00	190.00
15 Ton	140.00	260.00
20 Ton	150.00	300.00
30 Ton	150.00	300.00
Hay, Coal and Wagon Scales		
5 and 10 Ton	100.00	190.00
Dump Scales		
6 to 10 Tons	100.00	190.00
15 Tons	140.00	260.00
20 Tons	150.00	300.00
Miner and Transportation Scales		
4 and 5 Ton	130.00	185.00
6 and 10 Ton	130.00	190.00

Dormant Scales	A	B
1,500 to 3,000 lbs.	$100.00	$180.00
3,500 to 6,000 lbs.	100.00	185.00
Grain Hopper Scales		
300 to 500 bushels	175.00	330.00
800 to 1,000 bushels	200.00	360.00
1,200 bushels	225.00	395.00
2,000 bushels	260.00	480.00
2,500 bushels	300.00	525.00
Suspension Hopper Scales		
10 ton or less	110.00	190.00
Over 10 to 15 Tons	150.00	260.00
Over 15 to 25 Tons	190.00	290.00
Over 30 to 50 Tons	150.00	300.00
Extra for Tare Bars for		
Dormant, recording beam	15.00	
Miner, Wagon and Motor Truck	30.00	
30 ton or less, Railway Beams	40.00	
40 to 200 ton, Railway Beams	50.00	
Counterpoise and Weights		
2 to 20 tons ....extra list	10.00	
20 to 30 tons ....extra list	10.00	
40 to 200 tons ....extra list	15.00	

Standard Test Weight

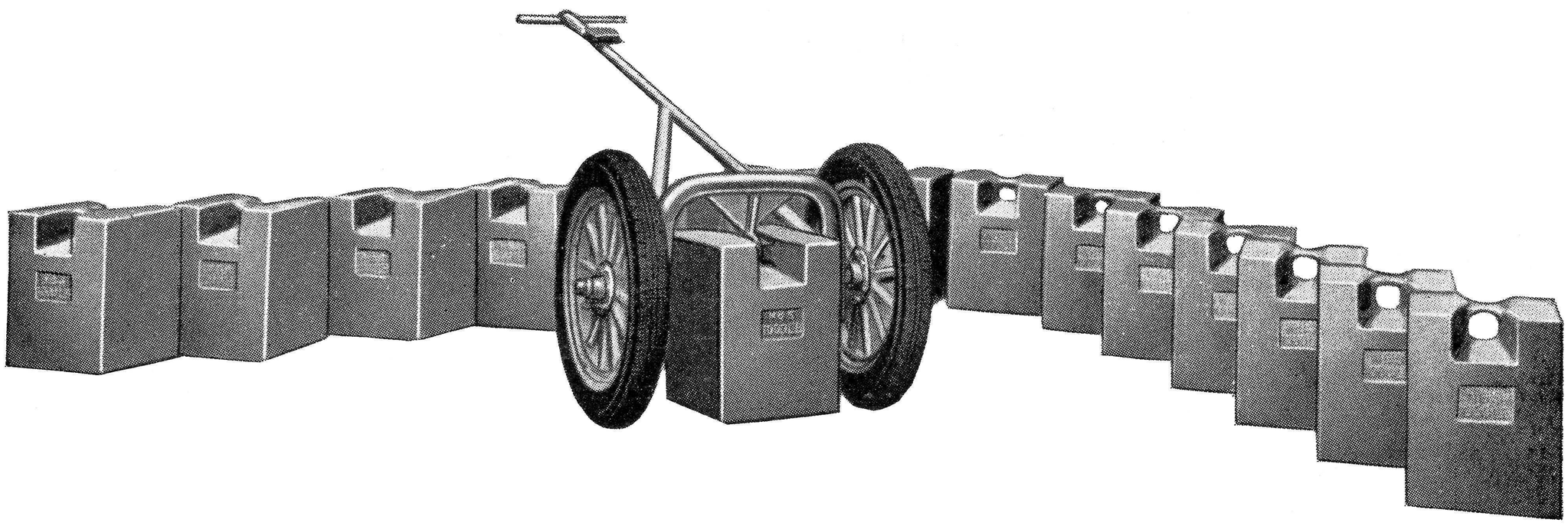


Number	Actual Weight	List Price
1605	100 lbs.	$15.00
1601	50 lbs.	8.00
1603	25 lbs.	6.50
7222	20 lbs.	6.00
7221	15 lbs.	5.50
7220	10 lbs.	5.00
7219	5 lbs.	3.00
7218	3 lbs.	2.75
7217	2 lbs.	2.50
7216	1 lb.	1.75

Standard test weights should be a regular part of the equipment wherever scales are used. If there is ever a question on the accuracy of weights they can answer the question at once. BUFFALO test weights are designed and sealed in accordance with the specifications of the U. S. Bureau of Standards. They are convenient to handle and are easily stacked. All edges are rounded to prevent the possibility of chipping. Final adjustment to the weight is made through an opening sealed with a screw plug. This makes it possible to re-seal the weight if the necessity ever arises. The weights are finished in durable rust resisting aluminum paint.

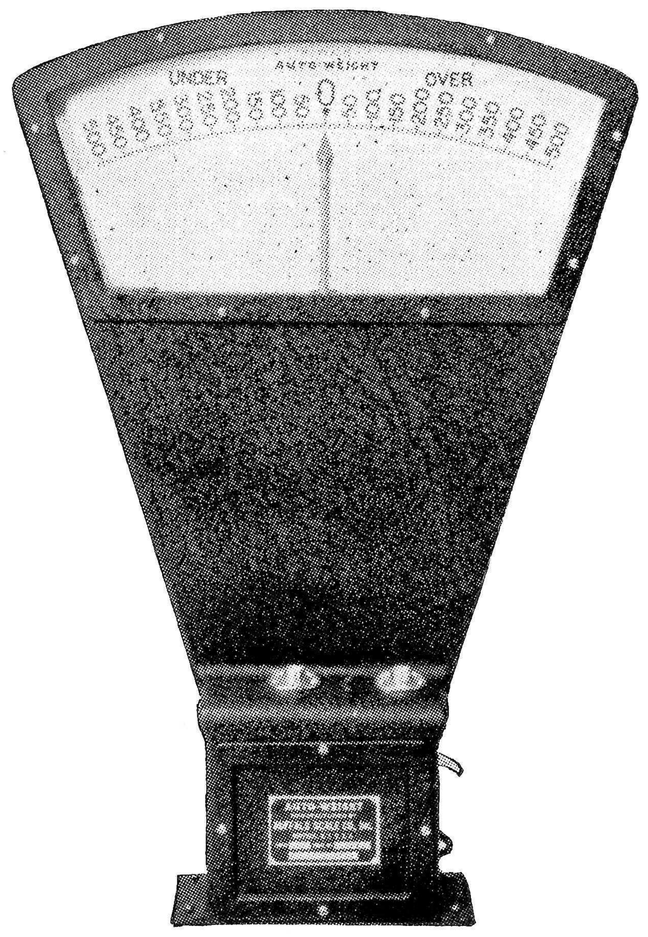
Large Test Weights

Large Test Weights ranging in weight from 500 lbs. to 2500 lbs., each are rapidly coming into more general use. Federal and State testing trucks carry a supply of 500 lbs. and 1,000 lbs. weights. Weights of these capacities and larger are used by stockyards and industrial plants. Large scales can be rapidly tested with these large weights without the handling of a number of smaller weights. These large weights are easily handled by a special buggy manufactured by the BUFFALO SCALE COMPANY, for this purpose.



Set of twenty 1,000 lb. Test Weights and special handling Buggy manufactured by the BUFFALO SCALE COMPANY, for the U. S. Bureau of Standards test truck.

Buffalo Auto-Weights



The BUFFALO Auto-Weight was originally designed as an over and under attachment for Motor Truck Scales where loads are trimmed to exact weight. While this has always remained the most popular application of the Auto-Weight, its fine accuracy, simplified trouble-free mechanism and large, easily read chart, have caused its adoption for many other purposes.

The large 204 Auto-Weight with full capacity 10,000 lb., chart has become increasingly popular for weighing mine cars. Auto-Weights with chart capacities of only 1 lb., graduated by 1/100 of a pound are used for weighing the amount of plating on steel sheets. On Hopper Scales, Auto-Weights have proved invaluable in accurately weighing predetermined amounts of material and can be used in connection with photo-electric cells, which automatically cut off the flow of material.

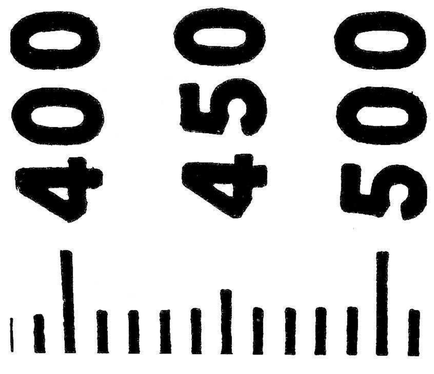
The Auto-Weight is now manufactured in two sizes—No. 202 with 10″ chart and No. 204 with 17″ chart. Concealed lights for chart illumination are used in both models.

Two styles of charts are available—the "Over and Under" chart, which indicates the amount which the load is over or under desired capacity and the gross capacity chart reading from zero to capacity.

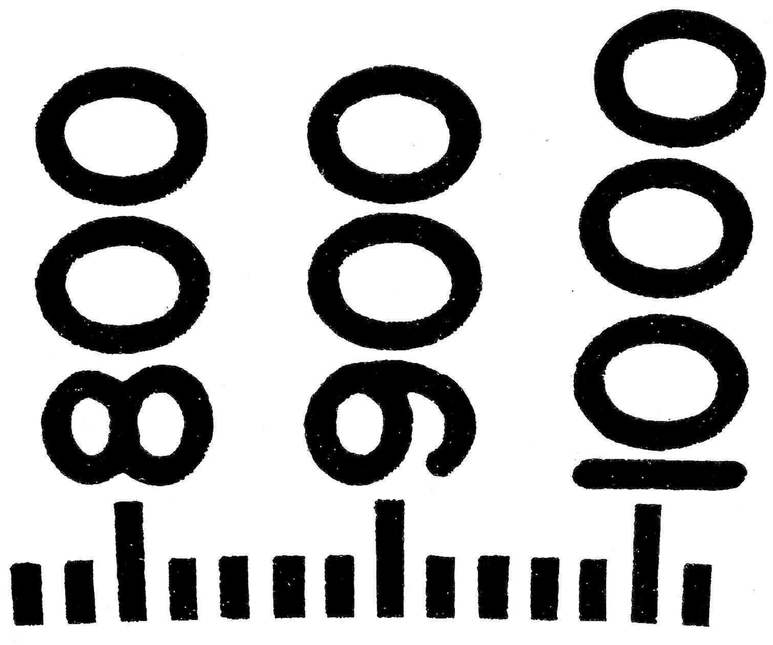
The Auto-Weight is applicable to practically any type of beam scale, whether new or in service at the present time.

In addition to its weighing features, it gives a constant visible check on the balance of a scale.

No.	Width of Chart	Shipping Weight
202	10″	115 lbs.
204	17″	125 lbs.



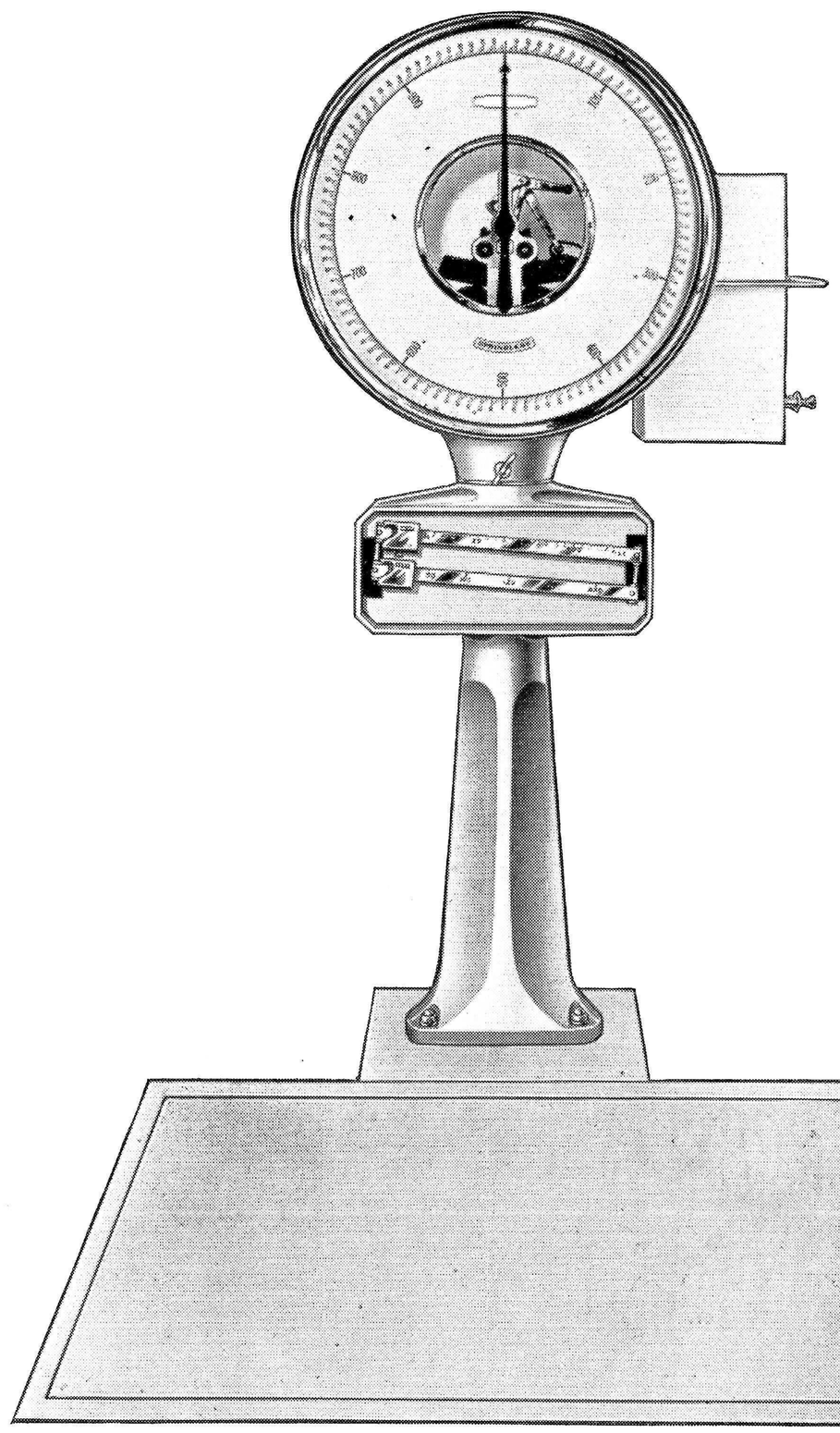
Actual size of graduations of 10″ chart.



Actual size of graduations of 17″chart.

THE WORLD'S STANDARD FOR THREE QUARTERS OF A CENTURY

Buffalo Automatic Recorder



A constantly increasing demand has arisen for the automatic recording of weights at a price which is not prohibitive. The BUFFALO Automatic Recorder has been built to meet this need. As shown in the illustration the recorder is an attachment which can be furnished with any BUFFALO Dial Scale of either the pillar or cabinet type. Weights can be printed on tickets or on a rolled tape which can be locked in the scale. Where necessary duplicate printing can be made so that a ticket can be given to the customer and a permanent record kept in the scale. The BUFFALO recorder has an exceedingly quick action which makes it invaluable where coupled cars are weighed in motion. When writing for information, please give a full account of your requirements and of the conditions governing your weighing.

Buffalo Weightographs



In the Weightograph, the BUFFALO SCALE COMPANY, INC., offers an automatic unit of exceedingly simple construction, and one which for sustained accuracy has stood the test of time.

The success of the Weightograph lies largely in its elimination of friction, due to the fact that it has but one moving unit. This unit consists of a frame holding a glass chart and a balance pendulum, which are mounted on a single shaft, turning in ball bearings. This unit is connected to the scale weigh-beam by a strong steel tape and rod.

Figures are photographed in miniature on the glass chart. A station light behind the chart and a powerful magnifying lens in front of the chart, magnify these figures and flash them onto the ground glass reading screen forty times their actual size.

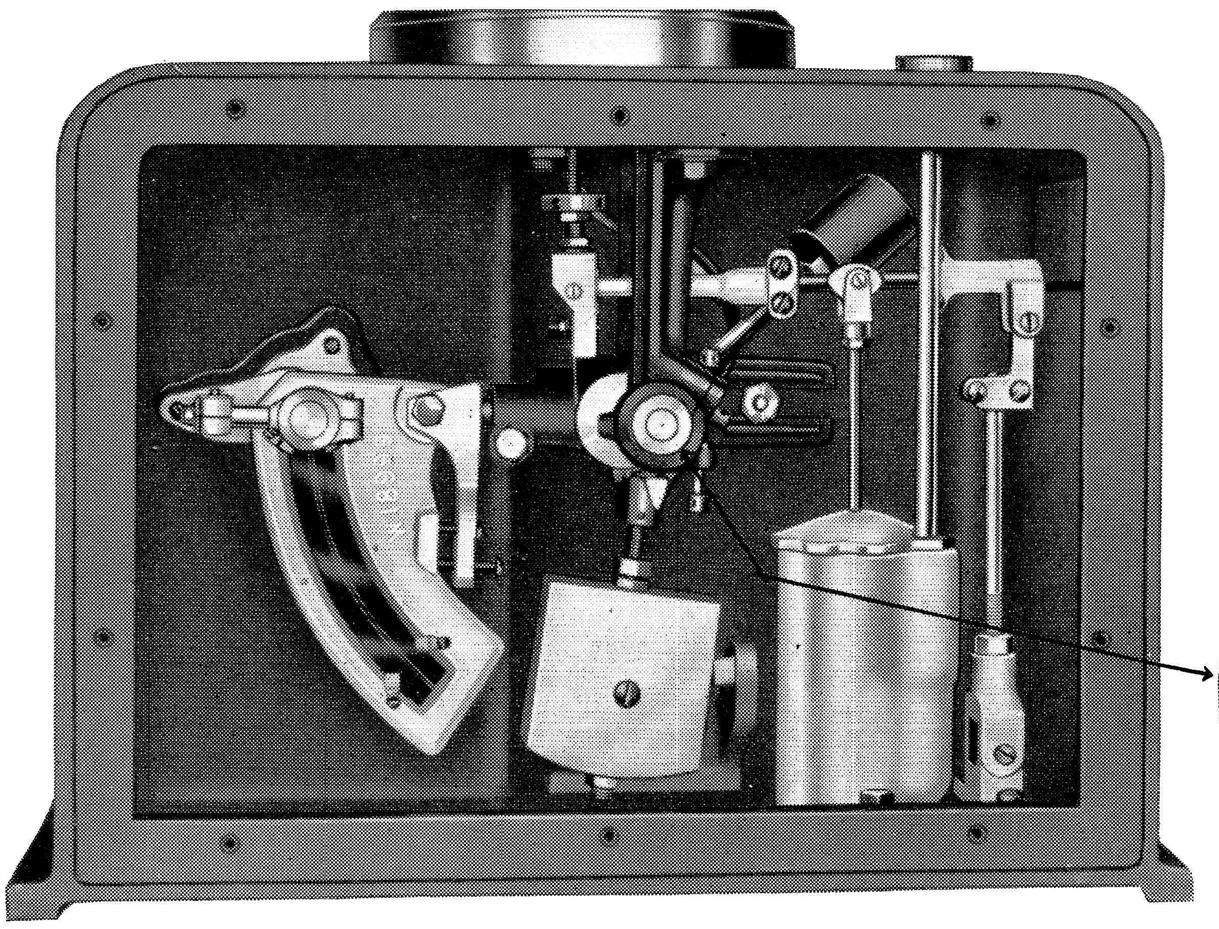
As there is no indicating hand on the Weightograph there is no parallax. The figures on the ground glass chart register exactly the same weight regardless of where the operator stands.

The Weightograph can be attached to practically any type of beam scale, whether new or now in service, or can be furnished in self-contained models in bench, portable or dormant types of scales.

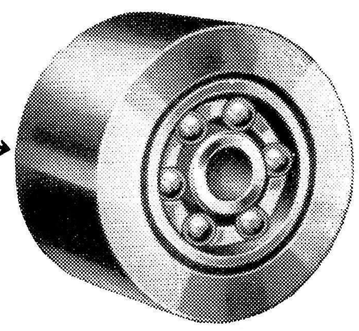
Only a few types of scales are illustrated in this catalog with Weightographs attached. In addition to Warehouse and Motor Truck Scales shown here, the Weightograph is equally efficient on Suspension Butchers' Scales, Monorail Scales, Pitless Suspension, Mine Scales, Depot Scales, Wagon Scales and and many other types.

The model illustrated on this page is No. 1700, the most generally used Weightograph. The chart of this model, which is illustrated on the next page, has 1,000 graduations if black marks only are read, or 2,000 graduations if white and black marks are read. A wide selection of charts, in various capacities and with different graduations, are available.

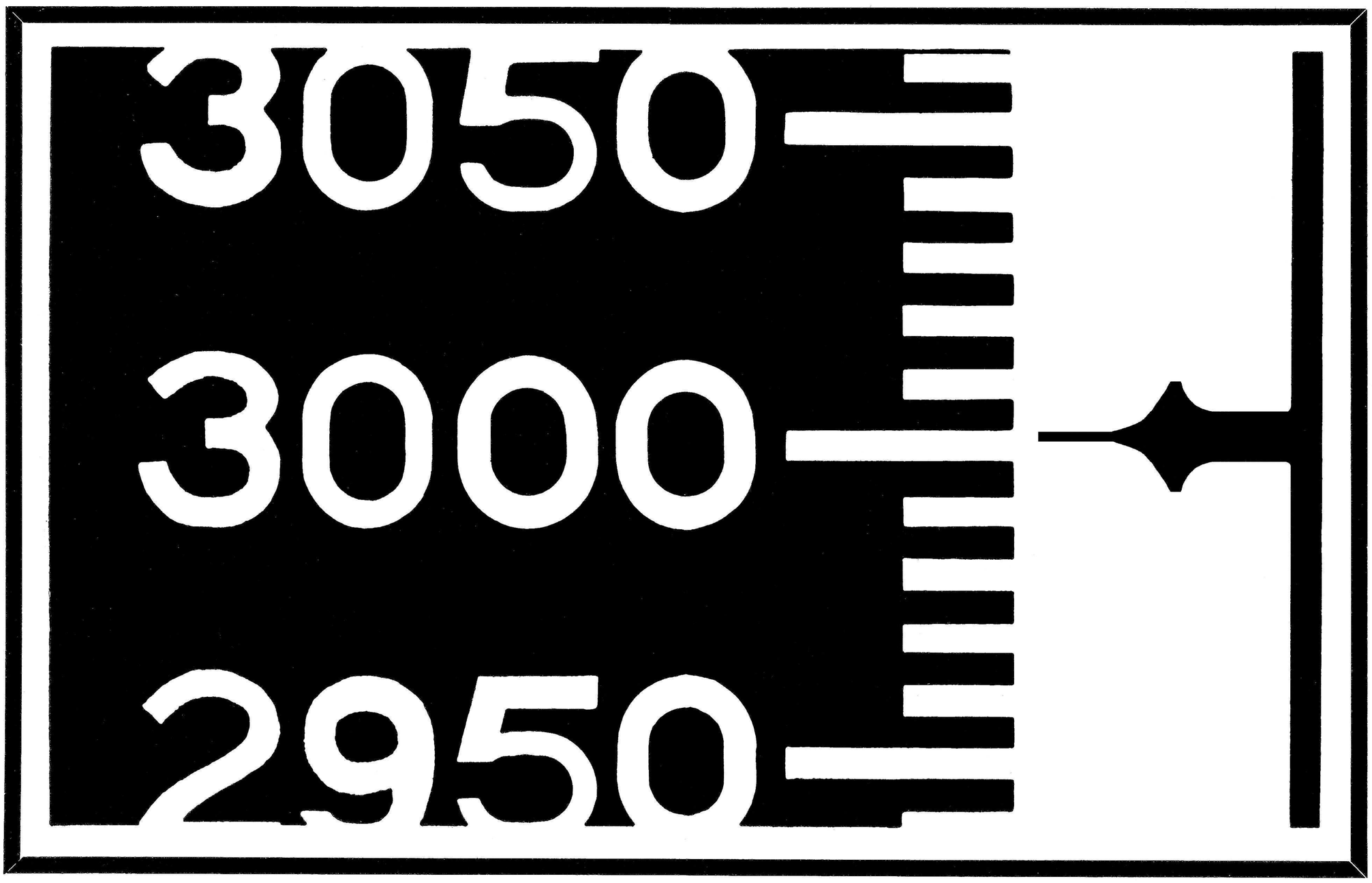
Buffalo Weightographs



At the left is shown the simplified mechanism of the BUFFALO Weightograph. Note the single shaft supported by ball bearings at the center of the illustration. The glass chart and magnifying lens are shown at the left, balance pendulum at lower center. At the right is shown the dash pot, which is employed to bring the scale weigh-beam to a quick stop and speed up weighing. There are no racks or pinions in the Weightograph—one moving unit only turning on ball bearings.



At the bottom of the page is an actual size reproduction of a Weightograph chart used in a Dormant Scale.



Actual size of figures on Weightograph chart. Many different charts are available.

Buffalo Weightographs

MODEL 1750—DOUBLE CAPACITY

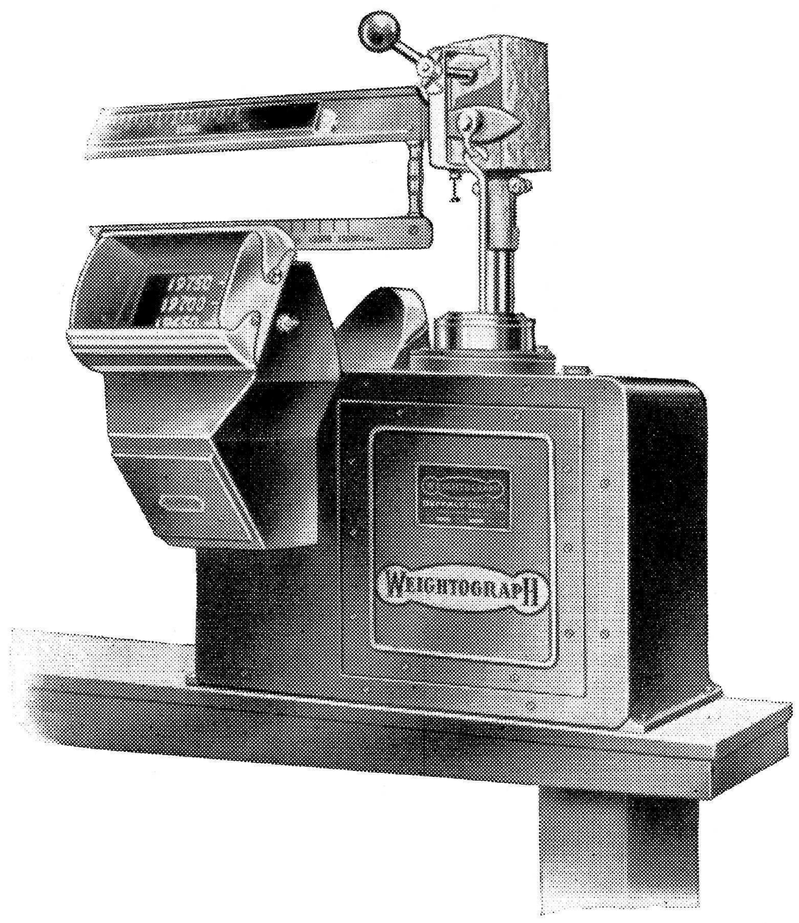
One of the newer Weightographs-Model 1750, gives twice the chart capacity of the regular Model 1700. The chart has 2,000 graduations if black marks only are read, or 4,000 graduations if white and black marks are read.

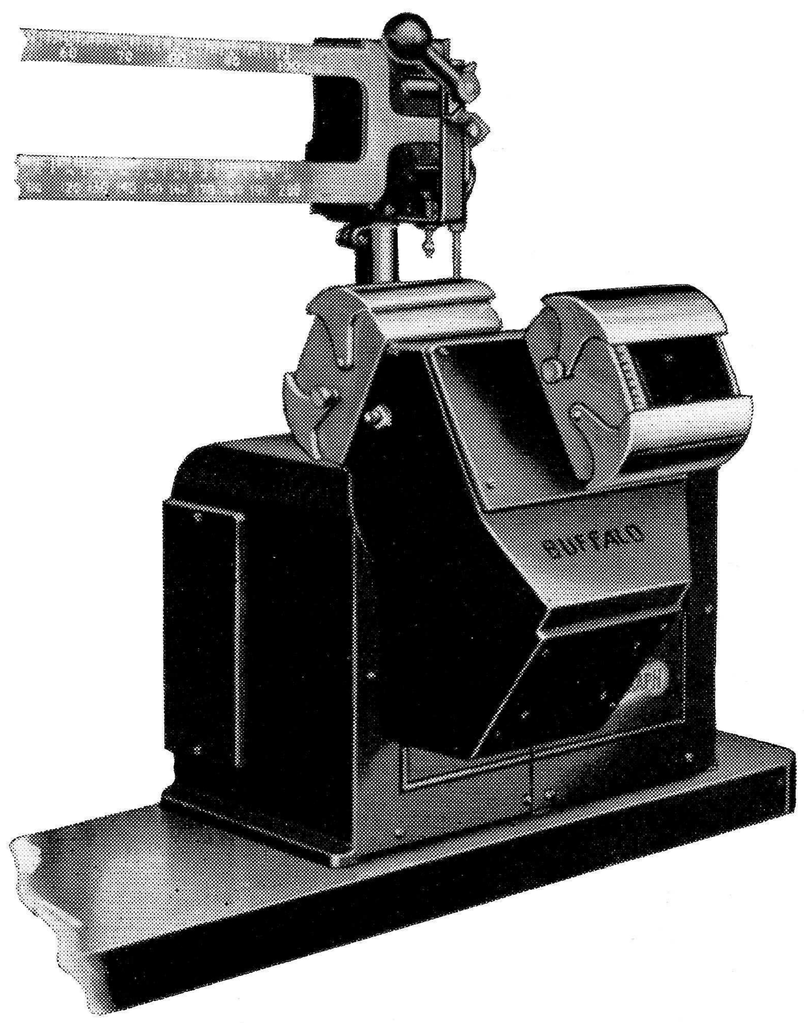
The mechanism is the same as illustrated on the preceding page, but the machine is made on a larger scale to accommodate a chart of double the length of Model 1700 chart.

The advantages of Model 1750 are evident. Heavy loads of valuable commodities may be weighed to a much finer degree of accuracy without the use of auxiliary weights or beam poises.

This is especially important at retail coal yards, gravel pits or at any point where speed in weighing is a factor.

If you are interested in double capacity, refer to Model 1750 in your inquiry.





MODEL 1710—DOUBLE READING

Certain installations require that a scale must be read from both the platform side as well as from the opposite side—For this purpose the Model 1710 has been developed with two shadow boxes and two reading screens facing in opposite directions.

The mechanism of Model 1710 is the same as that of Model 1700 described on preceding pages up to the point of optical magnification. The two readings are produced from the same chart and are, therefore, simultaneous, accurate and without variations.

Model 1700 Weightographs now in service can be converted into double reading Weightographs at a nominal cost.

The double reading feature of Model 1710 and the double capacity feature of Model 1750, described above can be combined in one model catalogued as Model 1760.

Buffalo Weightographs

Models 1800, 1900 and 2200 Platform Scales

MODELS 1800 and 1900

Chart range: 25 lbs. x ½ oz. to 250 lbs. x 4 oz.

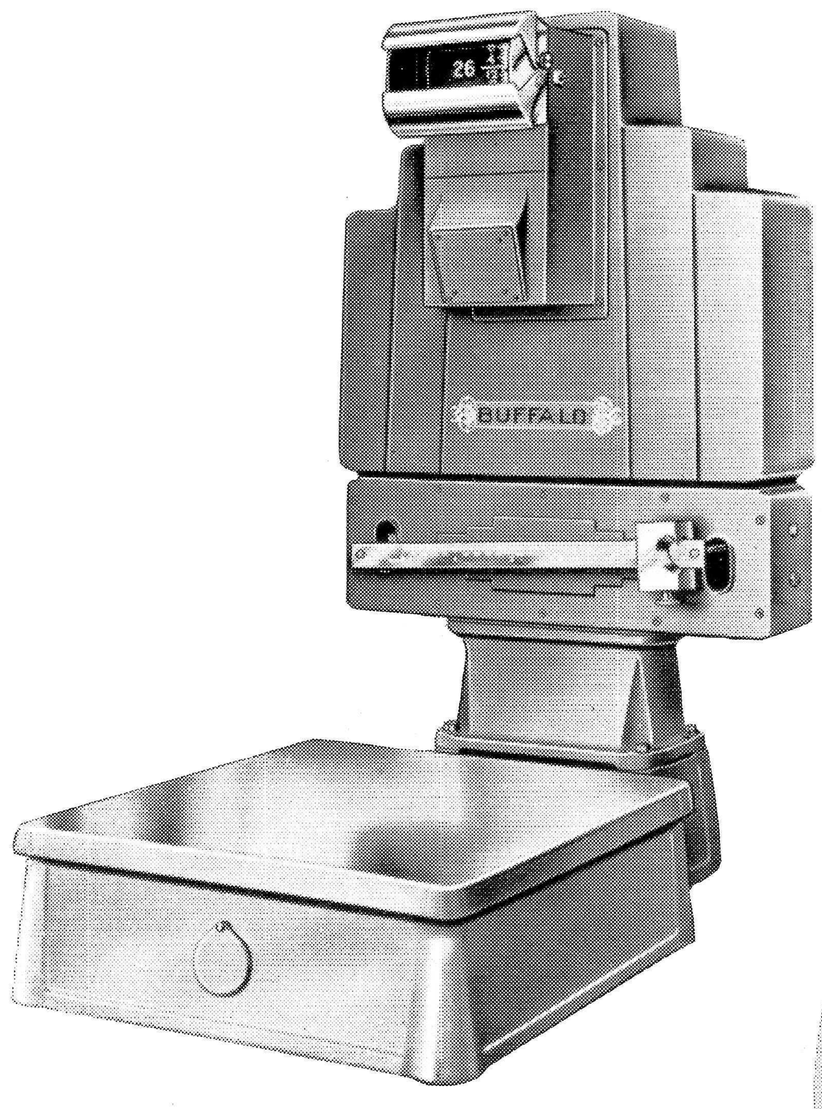
Tare Beam: 6 lbs. x ½ oz. 50 lbs. x 4 oz.

MODEL 2200

Chart range: 250 lbs. x 4 oz. to 800 lbs. x 1 lb.

Tare Beam: 50 lbs. x 4 oz. 200 lbs. x 1 lb.

Note: Capacity of tare beam cannot exceed one-third of chart capacity.

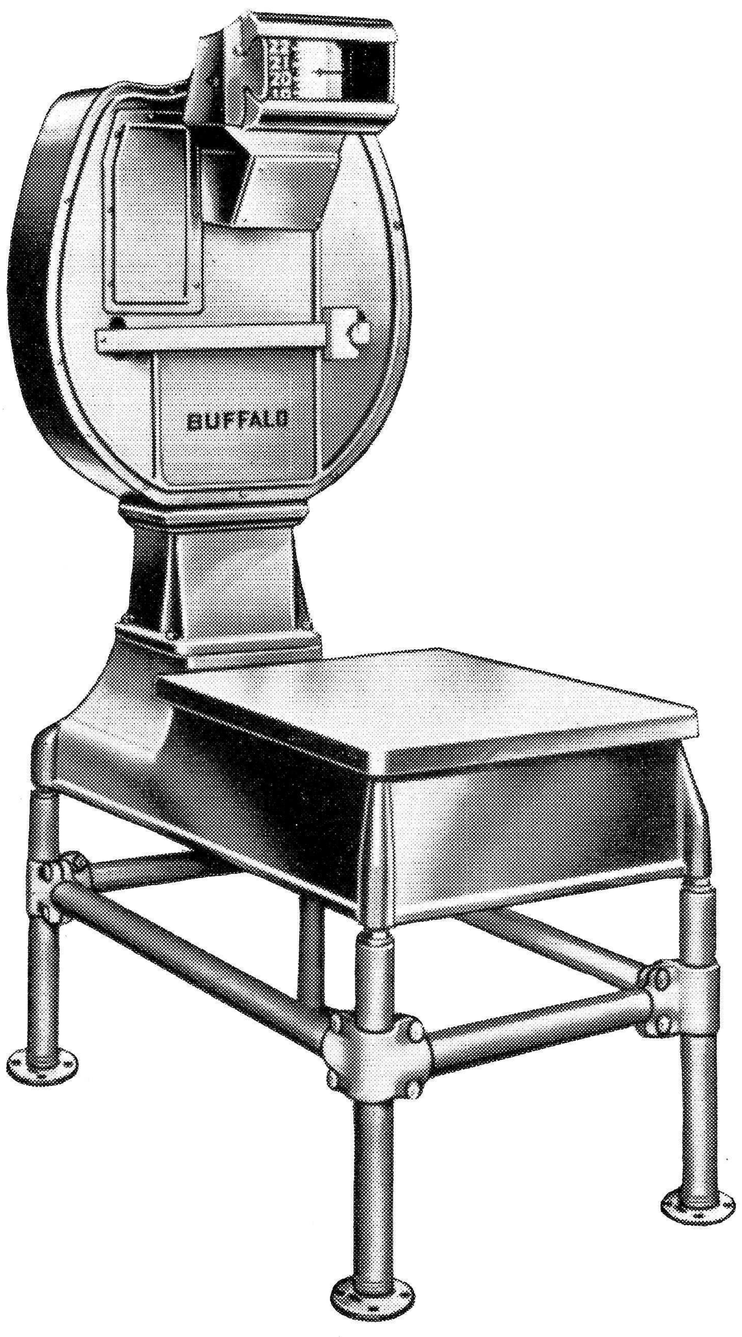


Bench Type Model

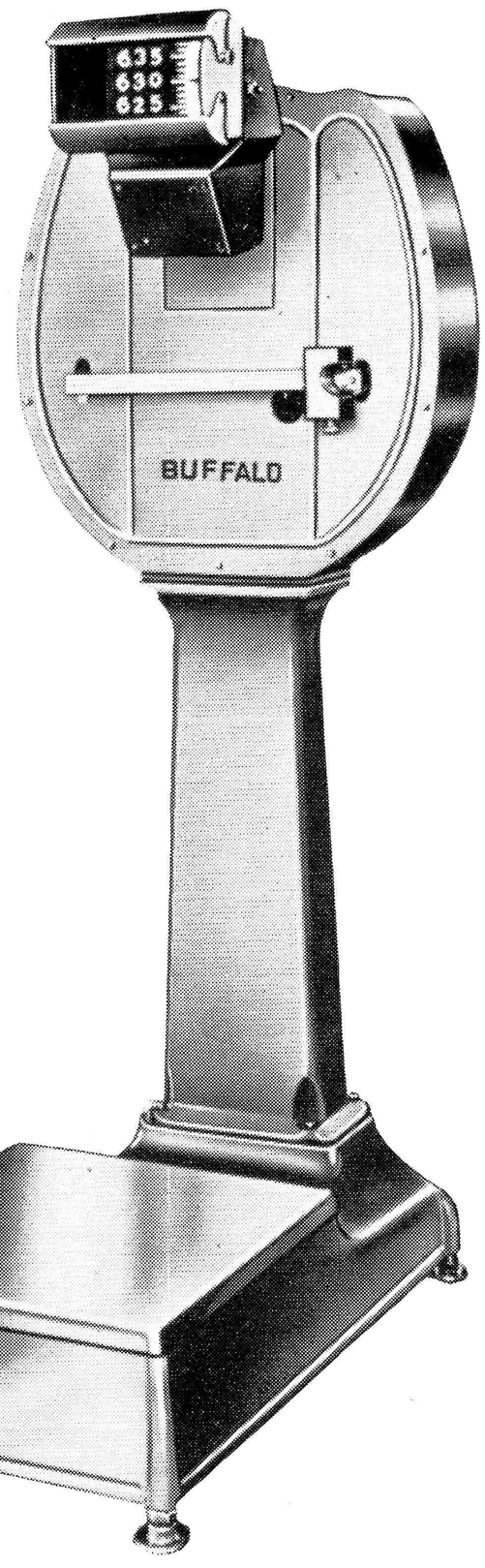
Model 1800
Platform Sizes
16½" x 18½"

Model 1900
Platform Sizes
18" x 20"

Model 2200
Platform Sizes
25" x 25"



Counter Height Leg Model



Tall Column Model

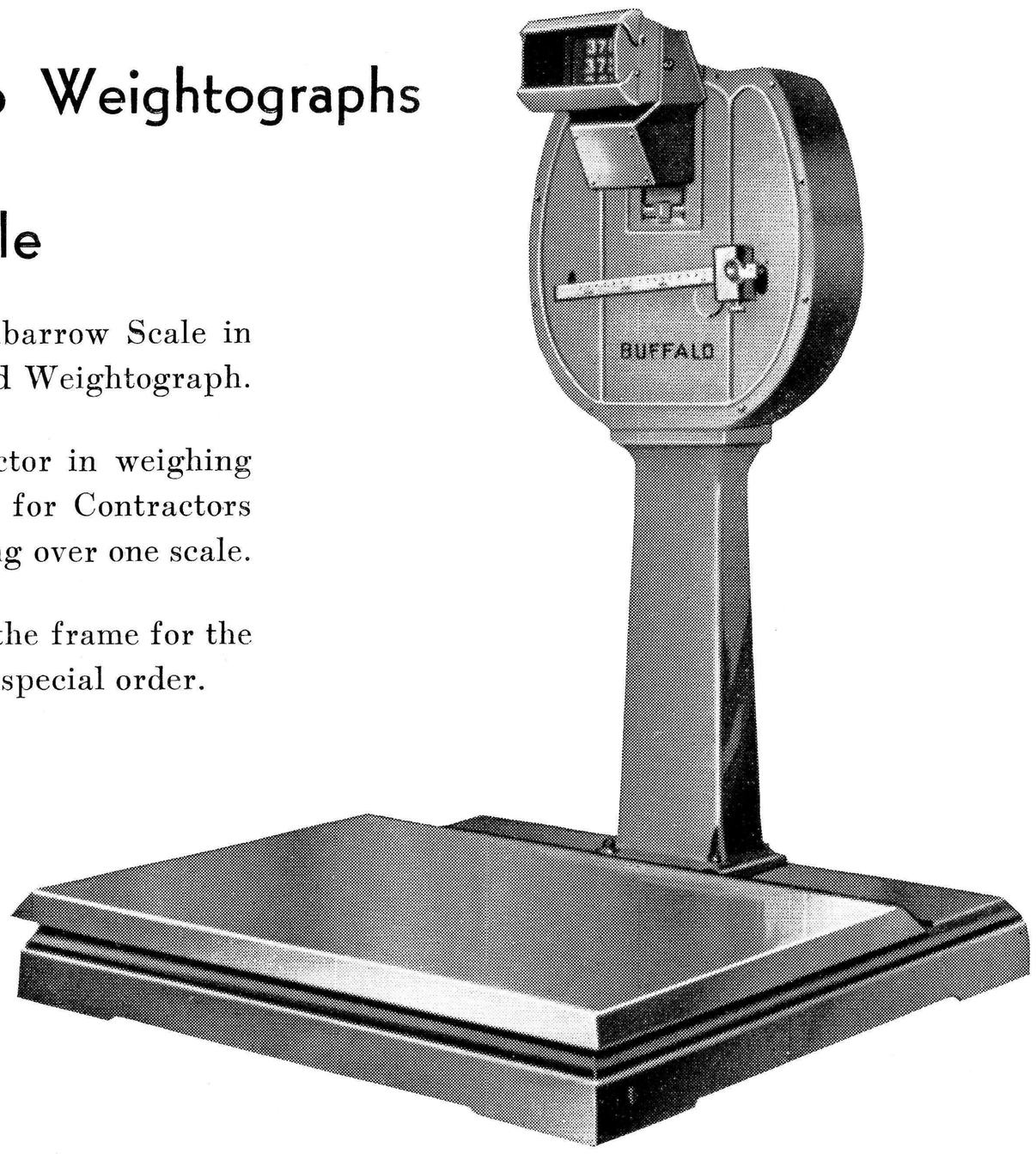
Buffalo Weightographs

Large Platform Scale

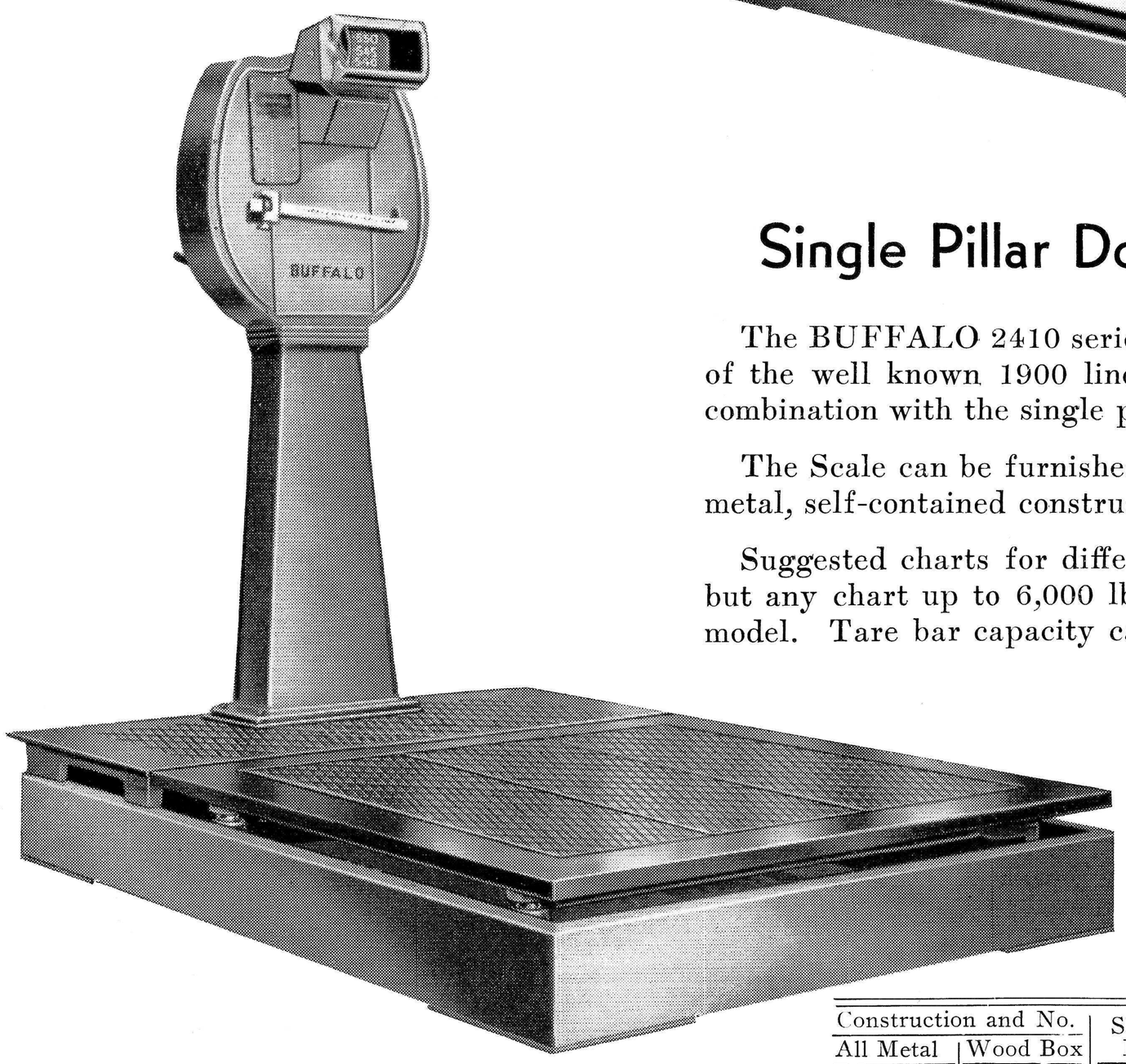
Model 2000 offers a large platform Wheelbarrow Scale in combination with a single pillar, self-contained Weightograph.

This is an ideal scale where speed is a factor in weighing wheelbarrow loads. It is especially adapted for Contractors use where a number of wheelbarrows are passing over one scale.

Both ends of the scale have brackets cast on the frame for the attachment of inclines, which are furnished on special order.



Model	Capacity	Chart	Tare Bar	Platform
2000	1,000 lbs.	800 x 1 lb.	200 x 1 lb.	43″ x 30″



Single Pillar Dormant Combination

The BUFFALO 2410 series of Weightograph Scales offers any of the well known 1900 line of BUFFALO Dormant Scales in combination with the single pillar self-contained Weightograph.

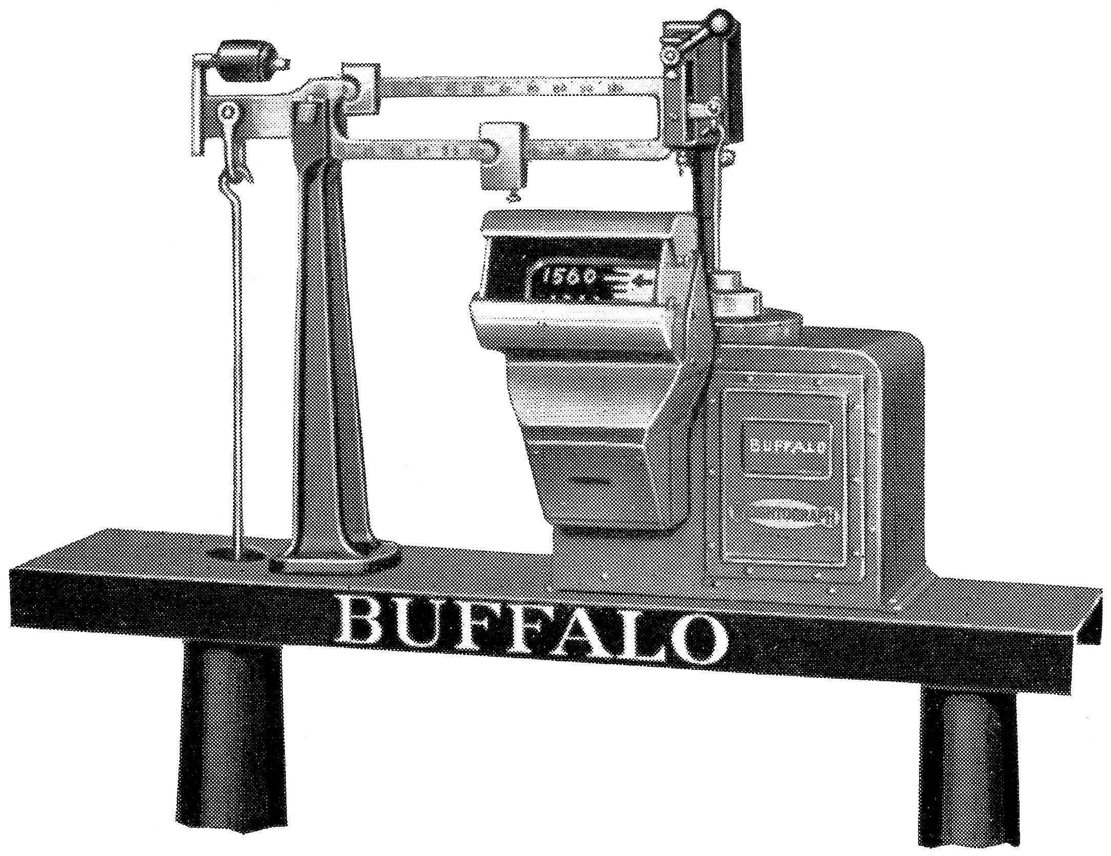
The Scale can be furnished in wood box, skeleton frame or all-metal, self-contained construction.

Suggested charts for different platform sizes are listed below, but any chart up to 6,000 lbs. capacity can be provided on any model. Tare bar capacity cannot exceed 25% of chart capacity.

Construction and No.		Skeleton Frame	Platform Size	Chart Capacities	Tare Bar Capacity
All Metal	Wood Box				
2410-S	2420-S	2430-S	46″ x 38″	1,000 x 1 lb.	250 x 1 lb.
2411-S	2421-S	2431-S	48″ x 48″	1,500 x 1 lb.	250 x 1 lb.
2412-S	2422-S	2432-S	60″ x 48″	2,000 x 2 lbs.	500 x 2 lbs.
2413-S	2423-S	2433-S	72″ x 48″	2,500 x 2 lbs.	500 x 2 lbs.
2414-S	2424-S	2434-S	76″ x 54″	5,000 x 5 lbs.	1,000 x 5 lbs.

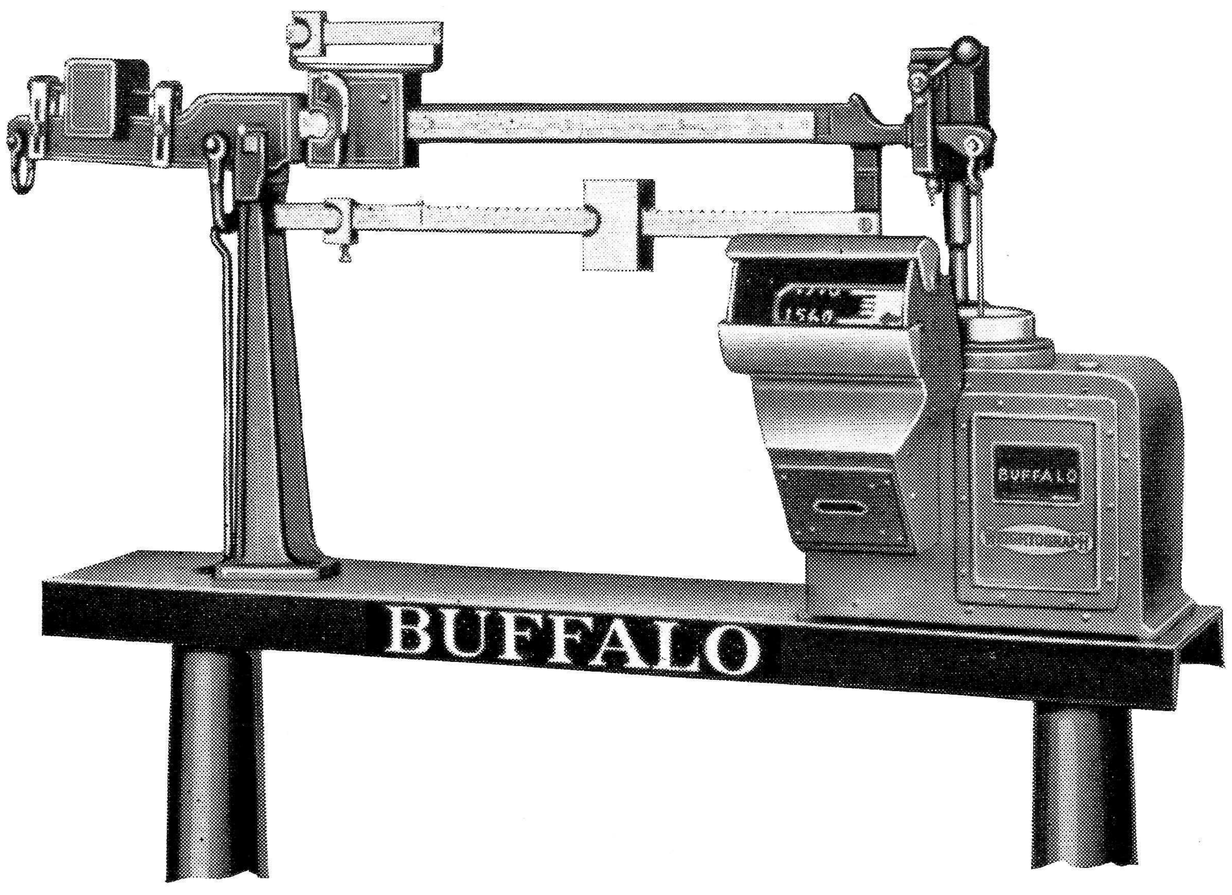
Buffalo Weightographs

Model 1700—Mounted on Buffalo Dormant Scale



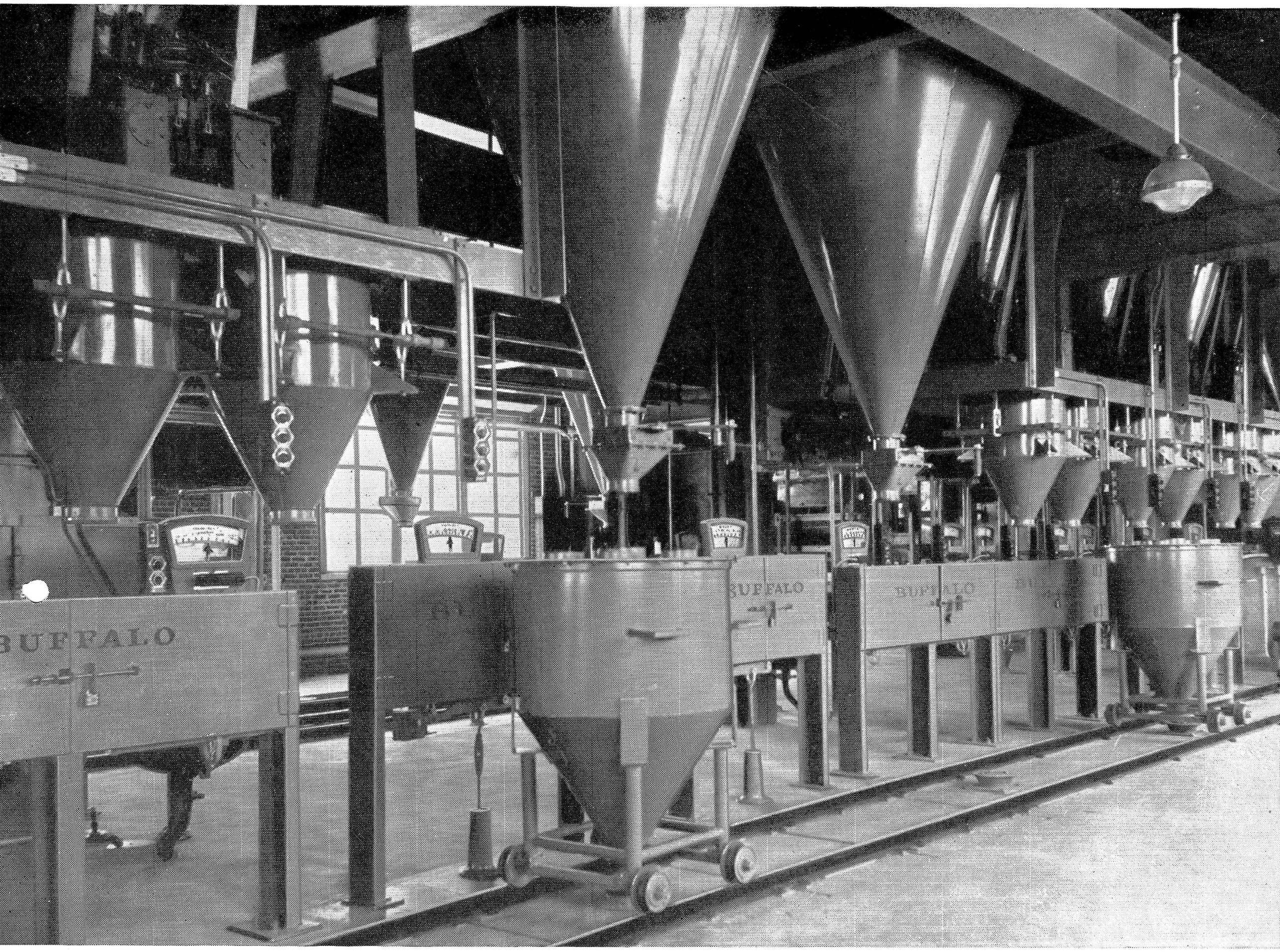
Weightograph Models 1700, 1710 or 1750 can be furnished with any BUFFALO Dormant Scale of either the 1700 or 1900 line, or can be attached to any make of Dormant Scale now in service, providing the scale is in good condition.

Model 1700 — Mounted on Buffalo Motor Truck Scale



As illustrated above, any Motor Truck Scale can be made fully automatic by the installation of a **BUFFALO** Weightograph. Either Model 1700 or 1750 is suitable, but Model 1750 is recommended, due to the fact that twice the chart capacity can be given with the same minimum graduation.

Automatic Batching Scales

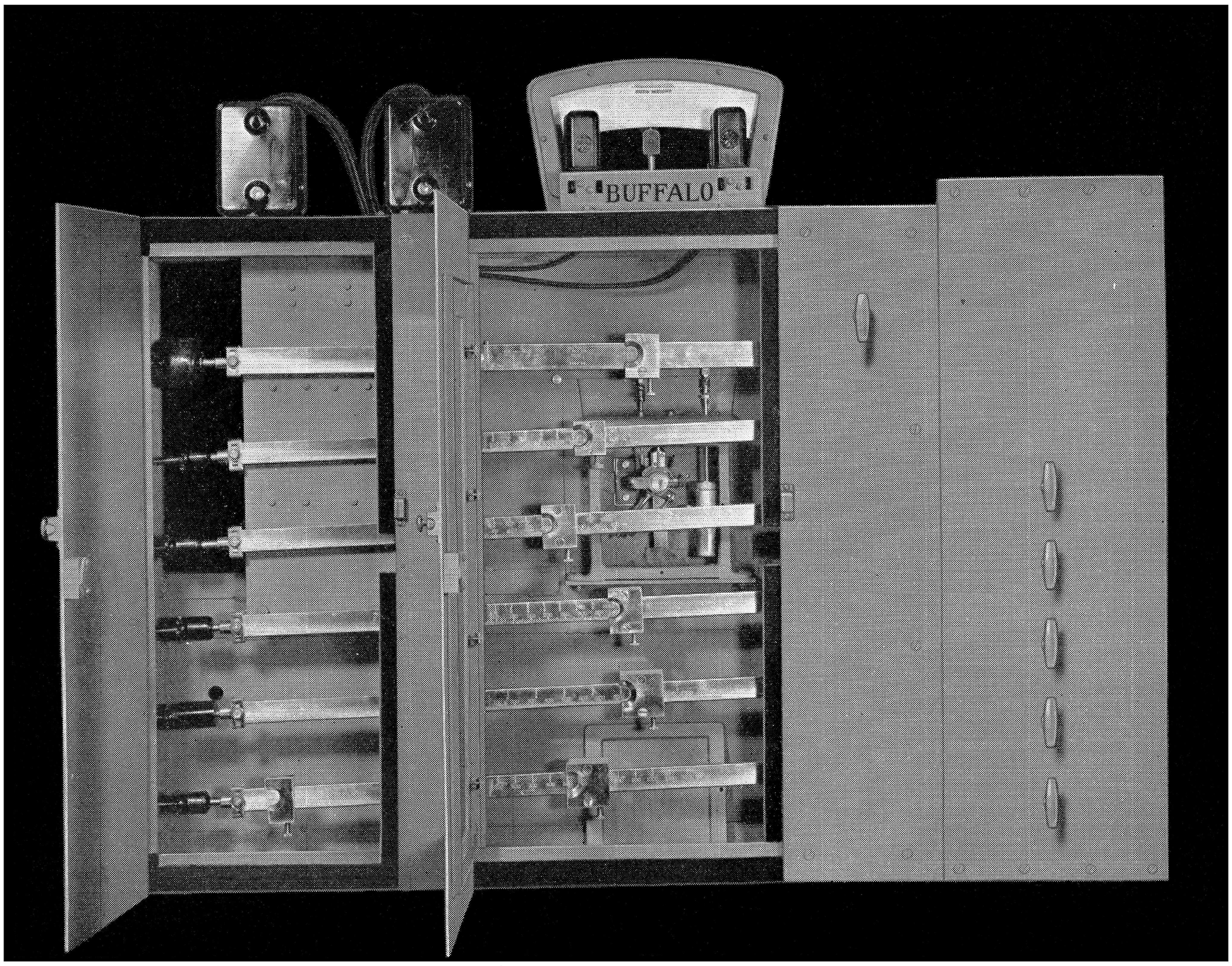


The continual development of new materials and new products produced to exacting specifications requires laboratory accuracy on a production basis.

It has emphasized the necessity for an accurate method of proportioning ingredients.

Automatic batching by weight is providing precise control of production, quality and costs. This modern method of measuring each ingredient by weight has effected surprising improvements and economies in a wide range of products where materials had formerly been proportioned by bulk or cruder weighing methods.

Automatic Batching Scales



The advantages of Batching by weight include:—

Extreme accuracy of proportioning.

Exact control of production. Closer Inventory Control.

Uniform high quality in accordance with formula.

Reduction of losses of materials and finished product, particularly when exact proportioning is a critical operation in processing.

Time and labor savings resulting from fast operation and minimum handling.

Flexibility and adaptability for varying production requirements.

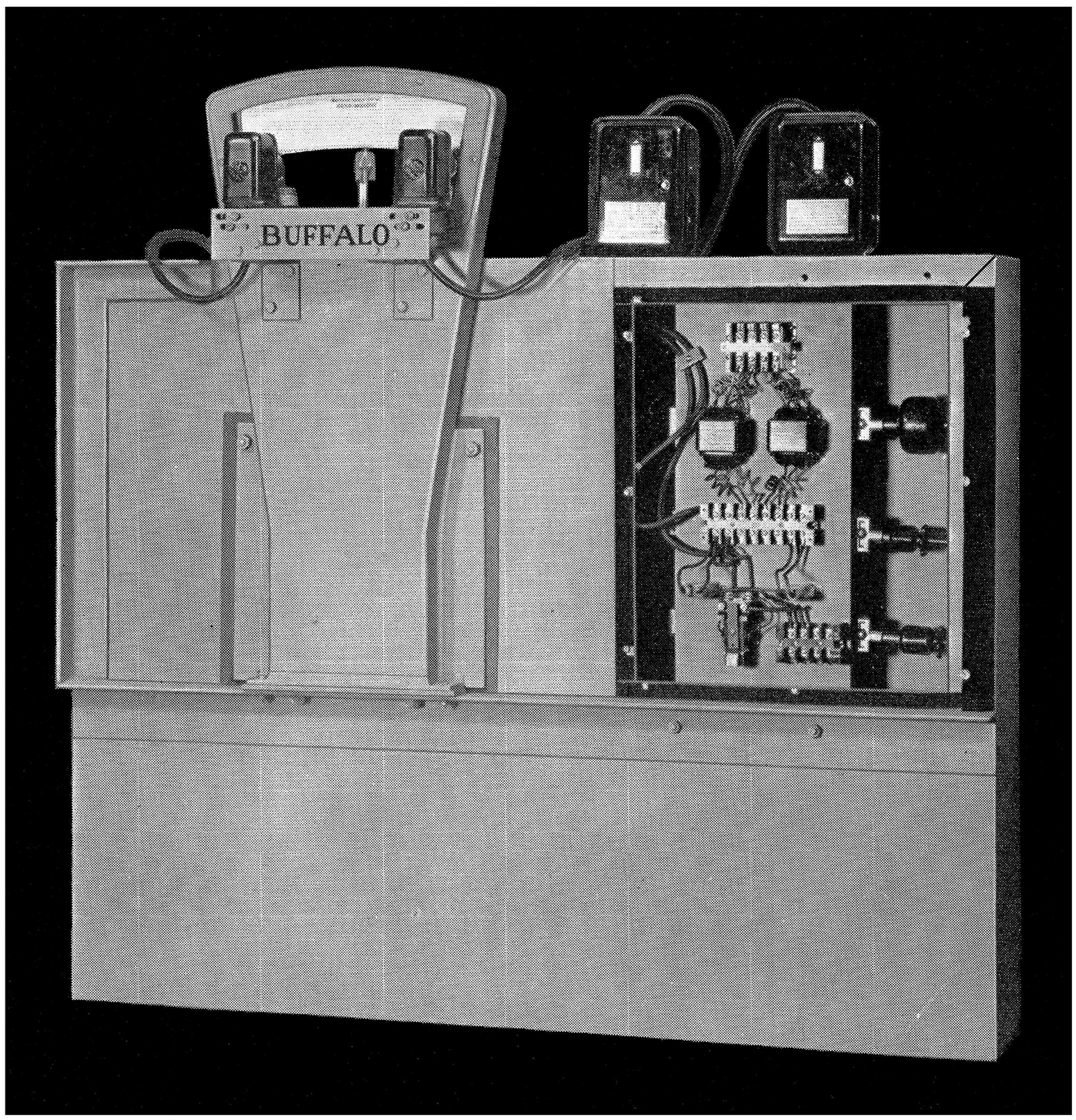
Weight is a constant factor, not affected by temperature changes.

Automatic Batching Scales

Batching operations concern fundamental and progressive operations in improving the finished product. For example—one of America's largest manufacturers recently solved a serious foundry problem in making more uniform castings by automatically and accurately proportioning the various grades of sand used for core making. Greatly reduced rejections and lower unit costs resulted immediately.

Another example of improved quality developed when a large manufacturer of glass installed modern batch weighing equipment at one plant. The improved quality was so evident that plans were immediately made for conversion of all their plants to this method.

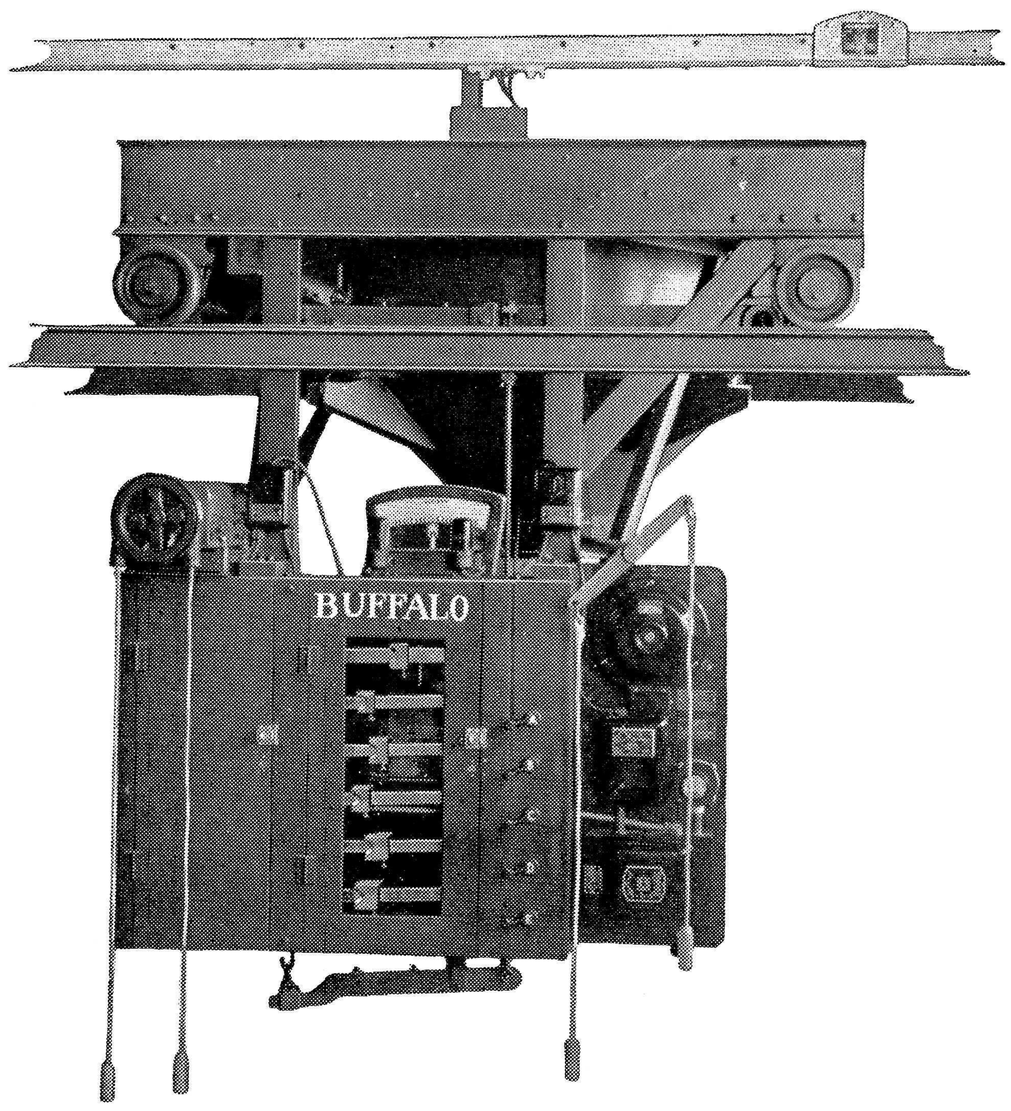
One of the most recent applications of BUFFALO Automatic batching equipment has been installed by one of the largest dispensers of coke for delivery by motor truck. Two twenty ton BUFFALO Motor Truck Scales are installed at the coke pockets. No weighman or operator is stationed at this scale. A truck drives onto the scale. The driver presses a button on the control cabinet and the weight of the truck is automatically tared and balanced on the main beam within a maximum time of 18 seconds. The driver may then select any one of three grades of coke. By pressing a button one ton of the selected grade is automatically delivered to his truck by overhead conveyors from the coke pockets. By pressing the button successive times the trucker can obtain up to five tons of one grade of coke or can split his load into different grades of coke. The total load is checked on one scale at the yard gate and checks consistently within one graduation. This eliminates any trimming of the load and speeds up the loading and weighing operations many times.



These are typical of the results being obtained in many lines of manufacturing and processing industries.

Front view (Page M-2) and rear view of batching scale with automatic, Electric Eye control of Flow and Cut-off. The double Electric Eye control provides speed with accuracy. Scales are available with any number of beams in accordance with the number of ingredients required in making the mix.

Automatic Batching Scales



An example of the adaptability of Buffalo Batching Scales is shown by this installation on a traveling larry car.

This is an exceedingly flexible line of equipment and one which lends itself to a wide range of applications. Selection of the particular units to be used depends on the operations of each individual user.

Hand operated beams with visual indication for use in connection with hand operated gates are recommended for installations where only a few batches are mixed during the day. The BUFFALO Auto-Weight is the most accurate and most easily read indicator yet devised as a warning for cutting off at a predetermined weight. BUFFALO Charging beams are all fitted with interchangeable pivots, assuring permanent accuracy at a minimum of maintenance.

For industries where batches are prepared in rapid succession or where one operator handles several batching units, automatic cut-off of each ingredient is provided. This is accomplished by mounting photo electric cells on the Auto-Weight. As the quantity of material going into the weigh hopper approaches its set capacity, the first photo-electric cell operates the mechanism controlling the flow of material to reduce the flow to a dribble feed. The second photo-electric cell cuts off the flow entirely at the predetermined weight. By this method the amount of each ingredient can be controlled to an accuracy of 1/10th of one per cent.

For plants in continuous production on a constant formula, full automatic equipment is provided. With this advanced scale it is only necessary for the operator to push a control button to mix a complete batch. Each ingredient is delivered in the desired sequence to the weigh hopper or mixer. Due to both electrical and mechanical interlock features, it is impossible to start operation in any but the proper sequence and equally impossible to skip any ingredient.

This equipment is not limited to any one means of delivery of material, but functions equally well in controlling gates, valves or conveyors of any type.

These few catalog pages permit but a meager description of our automatic batching scales. We will be pleased to mail to all who are interested, a copy of our new bulletin No. 385, entitled "Quality and Cost Control with Automatic Precision Batching by Weight." This bulletin gives a detailed description of this equipment. Our engineers are ready to consider your weighing problems and make recommendations without obligation.